NOTICE

All drawings located at the end of the document.

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Draft Data Summary Report
IHSS Group 400-6

IHSS 157.2 Radioactive Site South Area

September 2004

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Approval received from the Colorado Department of Public Health and Environment

( ).

Approval letter contained in the Administrative Record.

September 2004

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Compact Disc Containing Standardized Real and Quality Control Data

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ACRONYMS and ABBREVIATIONS

AAESE	Accelerated Action Ecological Screening Evaluation
AL	action level
AR	Administrative Record
ASD	Analytical Services Division
bgs	below ground surface
CAS	Chemical Abstract Service
CD	compact disc
CDPHE	Colorado Department of Public Health and Environment
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
COC	contaminant of concern
CRA	Comprehensive Risk Assessment
DOE	U.S. Department of Energy
DQA	Data Quality Assessment
DQO	data quality objective
EPA	U.S. Environmental Protection Agency
ER	Environmental Restoration
FB	field blank
ft	foot
FY	Fiscal Year
HRR	Historical Release Report
IA	Industrial Area
IASAP	Industrial Area Sampling and Analysis Plan
IHSS	Individual Hazardous Substance Site
IM/IRA	Interim Measure/Interim Remedial Action
IMP	Integrated Monitoring Program
K-H	Kaiser-Hill Company, L.L.C.
LCS	laboratory control sample
ug/kg	micrograms per kilogram
ug/L	micrograms per liter
mg/kg	milligrams per kilogram
mg/L	milligrams per liter
MS	matrix spike
MSD	matrix spike duplicate
NA	not applicable
NFAA	No Further Accelerated Action
NonRad	nonradionuclide
OPWL	Original Process Waste Lines
PAC	Potential Area of Concern
PAH	polycyclic aromatic hydrocarbon
PARCCS	precision, accuracy, representativeness, completeness, comparability, and sensitivity
PCB	polychlorinated biphenyl
pCi/g	picocuries per gram

ACRONYMS and ABBREVIATIONS

pCi/L	picocuries per liter
POE	point of evaluation
QC	quality control
Rad	radionuclide
RFCA	Rocky Flats Cleanup Agreement
RFETS or Site	Rocky Flats Environmental Technology Site
RIN	report identification number
RL	reporting limit
RNS	rinse blank
RPD	relative percent difference
SAP	Sampling and Analysis Plan
SD	standard deviation
SOR	sum of ratios
SSRS	Subsurface Soil Risk Screen
SVOC	semivolatile organic compound
SWD	Soil Water Database
V&V	verification and validation
VOC	volatile organic compound
WRW	wildlife refuge worker
%REC	percent recovery

1.0 INTRODUCTION

This Data Summary Report summarizes accelerated action characterization conducted at Individual Hazardous Substance Site (IHSS) Group 400-6 at the Rocky Flats Environmental Technology Site (RFETS or Site) near Golden, Colorado. These activities were planned and executed in accordance with the Industrial Area (IA) Sampling and Analysis Plan (SAP) (IASAP) (DOE 2001) and IASAP Addendum #IA-03-14 (DOE 2003). Results are compared to wildlife refuge worker (WRW) action levels (ALs) described in the Rocky Flats Cleanup Agreement (RFCA) (DOE et al. 2003). Potential ecological risk associated with the results will be evaluated in the Accelerated Action Ecological Screening Evaluation (AAESE) and the ecological portion of the Sitewide Comprehensive Risk Assessment (CRA). The location of IHSS Group 400-6 (IHSS 157.2) is shown on Figure 1.

This IHSS Group consists of one IHSS Site:

- IHSS 157.2 - Radioactive Site South Area

Approval of this Data Summary Report constitutes regulatory agency concurrence that IHSS Group 400-6 is a No Further Accelerated Action (NFAA) Site. This information and NFAA determination will be documented in the Fiscal Year (FY) 2004 (04) Historical Release Report (HRR).

2.0 SITE CHARACTERIZATION

IHSS Group 400-6 information consists of historical knowledge (DOE 1992-2003), historical sampling data, and recent sampling data. Historical information and data are summarized in Section 2.1. Characterization data collected in accordance with IASAP Addendum #IA-03-14 (DOE 2003) are presented in Section 2.2.

2.1 Historical Information and Data

The Radioactive Site South Area (IHSS 157.2) includes the paved and unpaved areas surrounding Buildings 444, 445, 447, 448, 450, 451, and 439. Historical information relevant to soil contamination in this IHSS includes the following:

- Before 1973, soil in the vicinity was reported to contain low levels of uranium and organic chemical contamination. Infiltration of hydraulic oil and carbon tetrachloride may have occurred at the uranium machine tool storage area, at the present location of Building 460.

- Operations associated with Building 444 may have contributed to potential contamination in the area. Near the south dock of Building 444, solvents used to clean beryllium parts were disposed on the ground.

- Soil sampling conducted twice in 1954 in a ditch south of Building 444 indicated radioactivity levels of two to three times background, but this was never documented in the HRR.

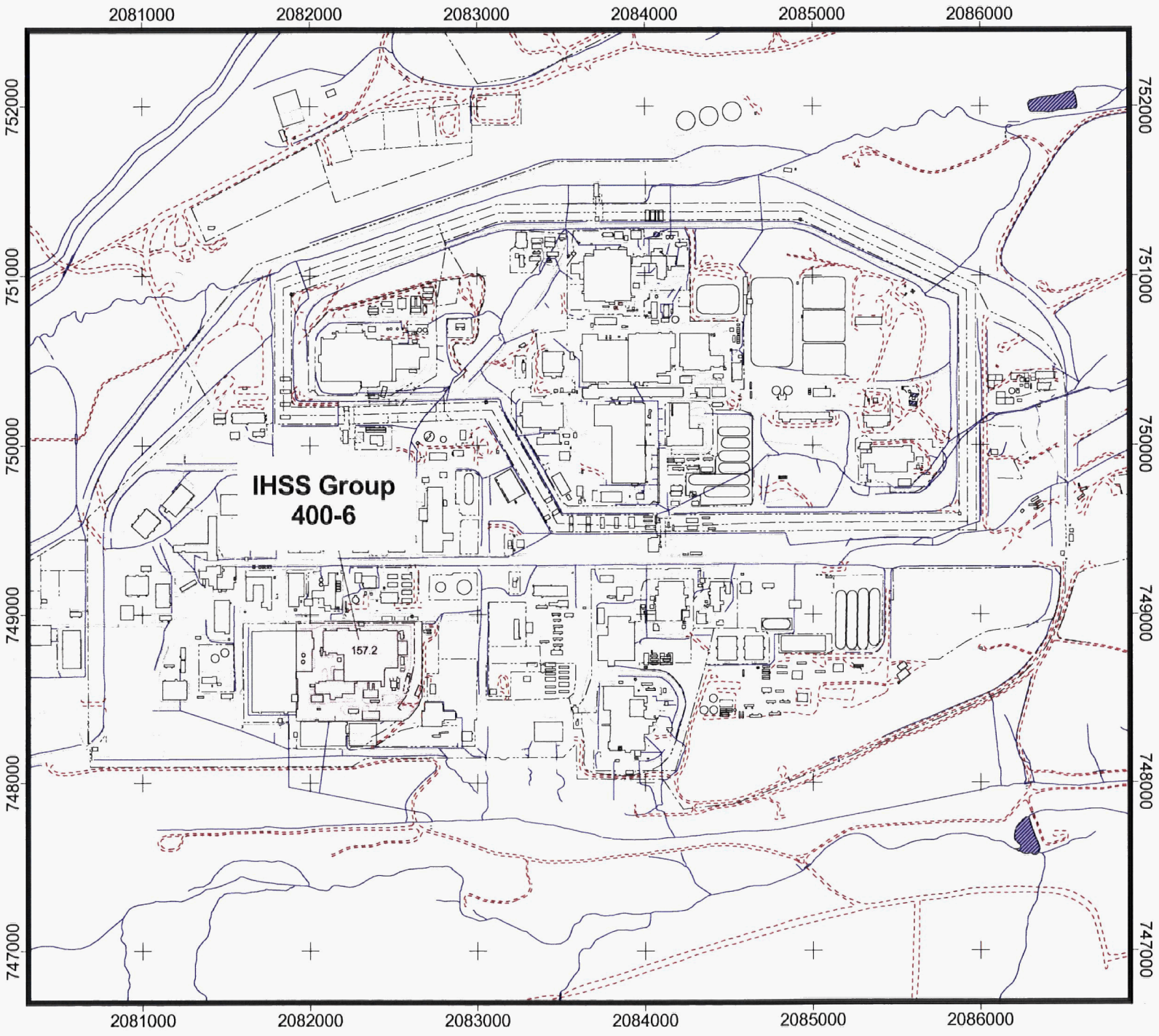

Figure 1
IHSS Group 400-6
Location Map

KEY

- IHSS Group 400-6
- Paved Roads
- Dirt Roads
- Streams and ditches
- Ponds

Building

- Demolished
- Standing

DRAFT

N
W E
S

500 0 500 Feet

Scale 1:10,000
State Plane Coordinate Projection
Colorado Central Zone
Datum: NAD 27

U.S. Department of Energy
Rocky Flats Environmental Technology

Prepared by: RADMS

Prepared for: KAISER•HILL COMPANY

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- An "ingot open storage area" east of Building 444, a metal storage area, and a uranium machine tool storage area to the west may have contributed to low-level contamination.

- Cooling tower ponds were once present in the area, in IHSSs 136.1 and 136.2 (these are part of IHSS Group 400-3, not IHSS Group 400-6).

Numerous incidents are mentioned in documents found during the HRR search that indicated potential contaminant releases to the IHSS 157.2 area; however, most of them provide few details. The reported incidents are discussed in Appendix C of the IASAP (DOE 2001).

2.2 Accelerated Action Characterization Data

Table 1 summarizes the proposed and actual accelerated action sampling and analysis at IHSS Group 400-6. A total of 204 sampling locations were planned for IHSS Group 400-6 as part of IASAP Addendum #IA-03-14. Of these, three were omitted from sampling because they overlapped closely with locations sampled in IHSS Group 400-3, and one new location was added.

The locations omitted because of overlap with IHSS Group 400-3 sampling were BW36-041 (10 feet [ft] from previously sampled location BW36-007), BW36-042 (7.5 ft from previously sampled location BW36-009) and BX 36-021 (7.6 ft from previously sampled location BX36-001). In all three cases, the 400-3 samples had been collected at equivalent depths and for equivalent analyte groups as were proposed for 400-6. IHSS Group 400-3 results were presented in a Data Summary Report (DOE, 2003a) and the site was approved for NFAA on 12/18/03. Because of the prior NFAA determination for IHSS Group 400-3 areas, it was considered unnecessary to resample at the same locations for the same analytes under IHSS Group 400-6.

Table 1
IHSS Group 400-6 Sampling and Analysis Summary

IHSS Group	Category	Planned Total	Actual Total
400-6	Number of Sampling Locations	204	202
	Number of Samples	455	447
	Number of Metal Analyses	455	445
	Number of Radionuclide Analyses	455	445
	Number of SVOC Analyses	34	36
	Number of VOC Analyses	250	249
	Number of Pesticide Analyses	24	24
	Number of PCB Analyses	22	26
	Number of Cyanide Analyses	29	30

Sampling criteria for two other locations were modified because of overlap with previously sampled locations. Metals and radionuclide analyses were omitted from BW36-040 and BX36-020 because these analytes had previously been analyzed at equivalent depths at BW36-014 and BX36-006, both of which were sampled under IHSS Group 400-3. BW36-014 is 6.9 ft from BW36-040 and BX36-001 is 4.9 ft from BX36-020. Volatile organic compound (VOC) analyses proposed for these locations were retained for subsurface samples because VOCs had not been previously analyzed.

One new sampling location, not included in the IASAP Addendum #IA-03-14, was added while IHSS Group 400-6 sampling was ongoing. BW35-043 was added as a replacement for BY35-017 because it was discovered that the A and B sampling intervals for BY35-017 had inadvertently been collected at proposed location BY35-009. The C, D, E, and F intervals for BY35-017 were collected later at the planned coordinates.

Only two of the locations proposed and sampled in IHSS Group 400-6 were biased locations. These were collected at downspout locations on the southern side of Building 447. The remainder were statistical locations. Every effort was made to collect statistical samples as close as possible to the coordinates originally planned in IASAP Addendum #IA-03-14, but offsets were necessary in some cases due to an abundance of buried utilities in the area. Despite the offsets, the overall distribution of statistical samples remains basically uniform and all areas of this IHSS Group are well characterized. Table 2 outlines all of the sampling locations and describes any deviations from the planned coordinates.

Accelerated action soil sampling locations and analytical results for IHSS Group 400-6 are summarized in Table 3 and shown on Figures 2 through 10. WRW AL exceedences are indicated in "bold" in Table 3 and in red on the figures. Only results greater than background means plus two standard deviations or reporting limits (RLs) are presented. Because of the great number of samples at this site it was necessary to post surface and subsurface soil results separately and to divide the area into quadrants. Figure 2 is an index map indicating which figures display the results for each location. All contaminant activities and concentrations are less than RFCA WRW ALs except for arsenic in three subsurface samples and benzo(a)pyrene and dibenz(a,h)anthracene in one subsurface sample.

Arsenic was detected at 23 to 24 milligrams per kilogram (mg/kg) in the 1.0'-3.0' sampling interval at BW35-014, the 0.5'-2.5' sampling interval at BX37-018, and the 0.5'-2.5' sampling interval at BZ36-012. These exceedences are only slightly higher than the WRW AL of 22 mg/kg.

Exceedences of benzo(a)pyrene at 15,000 micrograms per kilogram (ug/kg) and dibenz(a,h)anthracene at 3600 ug/kg occurred at BY35-008 in the 0.5'-2.5' depth interval. Although benzo(a)pyrene was also detected at nearby sampling locations BY35-012 and BY36-026, those detections were much lower than the detection at BY35-008 and were substantially below the WRW AL. Dibenz(a,h)anthracene was also

Table 2
IHSS Group 400-6 Characterization Sampling Deviations

Location	Proposed Northing	Proposed Easting	Actual Northing	Actual Easting	Actual Media	Actual Depth Interval (ft bgs)	Actual Analytes	Deviation from Proposed (ft)	Comment
BV35-000	748509.207	2081934.844	748506.982	2081939.164	Surface Soil Subsurface Soil	0.0 - 0.5 0.5 - 2.5	Radionuclides, Metals Radionuclides, Metals, VOCs	4.9SE	Relocated because of cooling tower water lines.
BV35-001	748414.128	2081929.186	748410.839	2081927.442	Surface Soil Subsurface Soil	0.5 - 1.0 1.0 - 3.0	Radionuclides, Metals Radionuclides, Metals, VOCs	3.7SW	Relocated because of alarm line. Asphalt 0'-0.5'
BV36-000	748638.942	2081930.760	748633.565	2081927.574	Surface Soil Subsurface Soil	0.0 - 0.5 0.5 - 2.5	Radionuclides, Metals Radionuclides, Metals, VOCs	6.3SW	Relocated because of electrical line.
BW35-006	748534.972	2081959.986	748534.938	2081959.965	Surface Soil Subsurface Soil	0.0 - 0.5 0.5 - 2.5	Radionuclides, Metals Radionuclides, Metals, VOCs	<1.0	No significant change in location.
BW35-007	748560.737	2081985.129	748560.675	2081985.193	Surface Soil Subsurface Soil	0.0 - 0.5 0.5 - 2.5	Radionuclides, Metals Radionuclides, Metals, VOCs	<1.0	No significant change in location.
BW35-008	748474.550	2081944.586	748478.157	2081938.795	Surface Soil Subsurface Soil	0.0 - 0.5 0.5 - 2.5	Radionuclides, Metals Radionuclides, Metals, VOCs	6.8NW	Relocated because of alarm line.
BW35-009	748500.315	2081969.729	748500.294	2081969.743	Surface Soil Subsurface Soil	0.0 - 0.5 0.5 - 2.5	Radionuclides, Metals Radionuclides, Metals, VOCs	<1.0	No significant change in location.
BW35-010	748526.081	2081994.871	748526.139	2081995.005	Surface Soil Subsurface Soil	0.2 - 0.7 0.7 - 1.2	Radionuclides, Metals Radionuclides, Metals, VOCs	<1.0	No significant change in location. Asphalt 0'-0.2'. Core loss in B interval
BW35-011	748439.893	2081954.328	748439.874	2081954.345	Surface Soil Subsurface Soil	0.5 - 1.0 1.0 - 3.0	Radionuclides, Metals Radionuclides, Metals, VOCs	<1.0	No significant change in location. Asphalt 0'-0.5'
BW35-012	748465.659	2081979.471	748465.685	2081979.034	Surface Soil Subsurface Soil	0.5 - 1.0 1.0 - 1.5	Radionuclides, Metals Radionuclides, Metals, VOCs	<1.0	No significant change in location. Asphalt 0'-0.5', core loss in B interval.
BW35-013	748491.424	2082004.613	748490.553	2082001.045	Surface Soil Subsurface Soil	0.0 - 0.5 0.5 - 2.5	Radionuclides, Metals Radionuclides, Metals, VOCs	3.7W	Relocated because of Building 451 foundation.
BW35-014	748379.471	2081938.928	748379.272	2081934.556	Surface Soil Subsurface Soil	0.5 - 1.0 1.0 - 3.0	Radionuclides, Metals Radionuclides, Metals, VOCs	4.4W	Relocated because of water line. Asphalt 0'-0.5'
BW35-015	748405.237	2081964.070	748407.550	2081960.448	Surface Soil Subsurface Soil	0.25 - 0.75 0.75 - 2.75	Radionuclides, Metals Radionuclides, Metals, VOCs	4.3W	Relocated because of alarm line. Asphalt 0'-0.3'.
BW35-016	748431.002	2081989.213	748431.471	2081992.209	Surface Soil Subsurface Soil	0.0 - 0.5 0.5 - 2.5	Radionuclides, Metals Radionuclides, Metals, VOCs	3.0E	Relocated because of alarm line.

Location	Proposed Northing	Proposed Easting	Actual Northing	Actual Easting	Actual Media	Actual Depth Interval (ft bgs)	Actual Analytes	Deviation from Proposed (ft)	Comment
BW35-017	748456.767	2082014.355	748456.813	2082014.382	Surface Soil Subsurface Soil	0.0 - 0.5 0.5 - 2.5	Radionuclides, Metals Radionuclides, Metals, VOCs	<1.0	No significant change in location.
BW35-018	748370.580	2081973.812	748383.213	2081981.834	Surface Soil Subsurface Soil	0.5 - 1.0 1.0 - 3.0	Radionuclides, Metals Radionuclides, Metals, VOCs	15.0NE	Relocated because of raw water line and concrete. Asphalt 0'-0.5'.
BW35-019	748396.345	2081998.955	748393.935	2081999.021	Surface Soil Subsurface Soil	0.5 - 1.0 1.0 - 3.0	Radionuclides, Metals Radionuclides, Metals, VOCs	2.4S	Relocated because of utilities. Asphalt 0'-0.5'.
BW35-020	748422.110	2082024.098	748413.450	2082024.067	Surface Soil Subsurface Soil	0.3 - 0.8 0.8 - 2.8	Radionuclides, Metals Radionuclides, Metals, VOCs	8.7S	Relocated because of utilities. Asphalt 0'-0.3'.
BW35-021	748447.876	2082049.240	748452.150	2082034.551	Surface Soil Subsurface Soil	0.0 - 0.5 0.5 - 2.5	Radionuclides, Metals Radionuclides, Metals, VOCs	15.3NW	Relocated because of utilities.
BW35-022	748473.641	2082074.383	748468.729	2082074.340	Surface Soil Subsurface Soil	0.5 - 1.0 1.0 - 3.0	Radionuclides, Metals Radionuclides, Metals, VOCs	4.9S	Relocated because of water line. Asphalt 0'-0.5'.
BW35-023	748499.406	2082099.525	748499.228	2082099.739	Surface Soil Subsurface Soil	0.0 - 0.5 0.5 - 2.2	Radionuclides, Metals Radionuclides, Metals, VOCs	<1.0	No significant change in location. Core loss in B interval, however all analyses were completed.
BW35-024	748387.454	2082033.840	748393.716	2082033.702	Surface Soil Subsurface Soil	0.3 - 0.8 0.8 - 2.8	Radionuclides, Metals Radionuclides, Metals, VOCs	6.3N	Relocated because of utilities. Asphalt 0'-0.3'.
BW35-025	748413.219	2082058.982	748413.222	2082059.014	Surface Soil Subsurface Soil	0.75 - 1.25 1.25 - 3.25	Radionuclides, Metals Radionuclides, Metals, VOCs	<1.0	No significant change in location. Asphalt 0'-0.8'
BW35-026	748438.984	2082084.125	748429.499	2082074.897	Surface Soil Subsurface Soil	0.5 - 1.0 1.0 - 3.0	Radionuclides, Metals Radionuclides, Metals, VOCs	13.2SW	Relocated because of alarm and power lines. Asphalt 0'-0.5'.
BW35-027	748464.750	2082109.267	748470.511	2082103.597	Surface Soil Subsurface Soil	0.5 - 1.0 1.0 - 3.0	Radionuclides, Metals Radionuclides, Metals, VOCs	8.1NW	Relocated because of telephone, sewer, and electric lines. Asphalt 0'-0.5'
BW35-028	748490.515	2082134.410	748490.520	2082134.466	Surface Soil Subsurface Soil	0.0 - 0.5 0.5 - 2.5	Radionuclides, Metals Radionuclides, Metals, VOCs	<1.0	No significant change in location.
BW35-029	748378.562	2082068.724	748378.686	2082068.836	Surface Soil Subsurface Soil	0.5 - 1.0 1.0 - 3.0	Radionuclides, Metals Radionuclides, Metals, VOCs	<1.0	No significant change in location. Asphalt 0'-0.5'.
BW35-030	748404.328	2082093.867	748404.185	2082104.208	Surface Soil Subsurface Soil	0.0 - 0.5 0.5 - 2.5	Radionuclides, Metals Radionuclides, Metals, VOCs	10.3E	Relocated because of utilities.

Location	Proposed Northing	Proposed Easting	Actual Northing	Actual Easting	Actual Media	Actual Depth Interval (ft bgs)	Actual Analytes	Deviation from Proposed (ft)	Comment
BW35-031	748430.093	2082119.010	748427.583	2082122.484	Surface Soil	0.0 - 0.5	Radionuclides, Metals	4.3 SE	Relocated because of alarm line.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		
BW35-032	748369.671	2082103.609	748370.376	2082106.913	Surface Soil	0.0 - 0.5	Radionuclides, Metals	3.4 NE	Relocated because of utilities.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		
BW35-033	748395.436	2082128.752	748395.490	2082132.623	Surface Soil	0.0 - 0.5	Radionuclides, Metals	3.9 E	Relocated because of utilities.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		
BW35-034	748528.842	2082119.694	748528.870	2082119.694	Surface Soil	0.0 - 0.5	Radionuclides, Metals	<1.0	No significant change in location. Core loss in B interval because of refusal, however all analyses were completed.
					Subsurface Soil	0.5 - 1.5	Radionuclides, Metals, VOCs		
BW35-035	748528.526	2082084.198	748528.601	2082080.126	Surface Soil	0.0 - 0.5	Radionuclides, Metals	4.1 W	Relocated because of utilities.
					Subsurface Soil	0.5 - 1.5	Radionuclides, Metals, VOCs		
BW35-043	748496.679	2082488.915	748496.637	2082489.230	Surface Soil	0.0 - 0.5	Radionuclides, Metals, PCBs, Pesticides, SVOCs	<1.0	No significant change in location. BW35-043 replaces BY35-017 for the A and B depth intervals.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs, PCBs, Pesticides, SVOCs		
BW36-018	748742.004	2082031.330	748739.330	2082037.433	Surface Soil	0.0 - 0.5	Radionuclides, Metals	6.7 SE	Relocated because of manhole.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		
BW36-019	748604.286	2081940.502	748605.853	2081934.619	Surface Soil	0.0 - 0.5	Radionuclides, Metals	6.1 W	Relocated because of conex boxes. The 0'-0.5' sample is designated BW36-019C and the 0.5'-2.5' sample is designated BW36-019D.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs, SVOCs		
BW36-020	748630.051	2081965.645	748629.541	2081962.535	Surface Soil	0.0 - 0.5	Radionuclides, Metals	3.2 W	Relocated because of utilities.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		
BW36-021	748655.816	2081990.787	748656.609	2081990.846	Surface Soil	0.0 - 0.5	Radionuclides, Metals	<1.0	Relocated because of underground piping.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		
BW36-022	748681.582	2082015.930	748661.522	2082015.892	Surface Soil	0.0 - 0.5	Radionuclides, Metals	20.1 S	Relocated because of 13.8 kV electrical line.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		
BW36-023	748707.347	2082041.072	748707.306	2082041.056	Surface Soil	0.0 - 0.5	Radionuclides, Metals	<1.0	No significant change in location.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		
BW36-024	748733.112	2082066.215	748733.082	2082065.968	Surface Soil	0.0 - 0.5	Radionuclides, Metals	<1.0	No significant change in

Location	Proposed Northing	Proposed Easting	Actual Northing	Actual Easting	Actual Media	Actual Depth Interval (ft bgs)	Actual Analytes	Deviation from Proposed (ft)	Comment
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		location.
BW36-025	748758.878	2082091.358	748758.978	2082090.993	Surface Soil	0.0 - 0.5	Radionuclides, Metals	<1.0	No significant change in location.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		
BW36-026	748569.629	2081950.244	748558.496	2081935.630	Surface Soil	0.0 - 0.5	Radionuclides, Metals	18.4 SW	Relocated because of conex boxes.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		
BW36-027	748595.394	2081975.387	748595.342	2081975.458	Surface Soil	0.0 - 0.5	Radionuclides, Metals	<1.0	No significant change in location.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		
BW36-028	748621.160	2082000.529	748621.226	2082000.448	Surface Soil	0.0 - 0.5	Radionuclides, Metals	<1.0	No significant change in location.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		
BW36-029	748646.925	2082025.672	748646.899	2082025.727	Surface Soil	0.0 - 0.5	Radionuclides, Metals	<1.0	No significant change in location.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		
BW36-030	748672.690	2082050.815	748672.739	2082051.019	Surface Soil	0.0 - 0.5	Radionuclides, Metals	<1.0	No significant change in location.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		
BW36-031	748698.456	2082075.957	748698.532	2082076.026	Surface Soil	0.0 - 0.5	Radionuclides, Metals	<1.0	No significant change in location.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		
BW36-032	748724.221	2082101.100	748724.258	2082100.980	Surface Soil	0.0 - 0.5	Radionuclides, Metals	<1.0	No significant change in location.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		
BW36-033	748749.986	2082126.242	748750.017	2082125.915	Surface Soil	0.0 - 0.5	Radionuclides, Metals	<1.0	No significant change in location.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		
BW36-034	748586.503	2082010.272	748586.543	2082010.343	Surface Soil	0.0 - 0.5	Radionuclides, Metals	<1.0	No significant change in location.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		
BW36-035	748612.268	2082035.414	748612.215	2082035.421	Surface Soil	0.0 - 0.5	Radionuclides, Metals	<1.0	No significant change in location.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		
BW36-036	748638.033	2082060.557	748637.706	2082066.016	Surface Soil	0.0 - 0.5	Radionuclides, Metals	5.5 E	Relocated because of abandoned phone lines.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		
BW36-037	748663.799	2082085.699	748663.792	2082085.977	Surface Soil	0.0 - 0.5	Radionuclides, Metals	<1.0	No significant change in location. Core loss in B interval because of refusal, however all analyses were completed.
					Subsurface Soil	0.5 - 1.0	Radionuclides, Metals, VOCs		
BW36-038	748689.564	2082110.842	748689.628	2082110.947	Surface Soil	0.0 - 0.5	Radionuclides, Metals	<1.0	No significant change in location.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		

Location	Proposed Northing	Proposed Easting	Actual Northing	Actual Easting	Actual Media	Actual Depth Interval (ft bgs)	Actual Analytes	Deviation from Proposed (ft)	Comment
BW36-039	748715.329	2082135.984	748715.264	2082136.020	Surface Soil Subsurface Soil	0.0 - 0.5 0.5 - 2.5	Radionuclides, Metals Radionuclides, Metals, VOCs	<1.0	No significant change in location.
BW36-040	748629.142	2082095.441	748629.207	2082095.482	Subsurface Soil	0.5 - 2.5	VOCs	<1.0	This sample location very closely overlaps with BW36-014, which was sampled previously under IHSS Group 400-3 in the A and B intervals for radionuclides and metals. This location was sampled only for VOCs. Asphalt 0'-0.7'.
BW36-041	748654.910	2082120.580	-----	-----	-----	-----	-----	-----	This sample location was eliminated because of very close overlap with location BW36-007, previously sampled under IHSS Group 400-3.
BW36-042	748620.250	2082130.330	-----	-----	-----	-----	-----	-----	This sample location was eliminated because of very close overlap with location BW36-009, previously sampled under IHSS Group 400-3.
BW37-003	748958.836	2081937.993	748954.207	2081938.000	Surface Soil Subsurface Soil	0.0 - 0.5 0.5 - 2.5	Radionuclides, Metals Radionuclides, Metals, VOCs	4.6S	Relocated because of water line.
BW37-004	748924.179	2081947.735	748927.972	2081962.446	Surface Soil	0.0 - 0.5	Radionuclides, Metals	15.2E	Relocated because of electrical line and concrete.
BW37-005	748949.944	2081972.878	748943.925	2081984.434	Surface Soil Subsurface Soil	0.0 - 0.5 0.5 - 2.5	Radionuclides, Metals Radionuclides, Metals, VOCs	13.0SE	Relocated because of water line.
BW37-006	748915.288	2081982.620	748915.279	2081982.599	Surface Soil Subsurface Soil	0.0 - 0.5 0.5 - 2.5	Radionuclides, Metals Radionuclides, Metals, VOCs	<1.0	No significant change in location. Asphalt 0'-0.2'.

Location	Proposed Northing	Proposed Easting	Actual Northing	Actual Easting	Actual Media	Actual Depth Interval (ft bgs)	Actual Analytes	Deviation from Proposed (ft)	Comment
BW37-007	748941.053	2082007.762	748941.022	2082007.823	Surface Soil Subsurface Soil	0.0 - 0.5 0.5 - 2.5	Radionuclides, Metals Radionuclides, Metals, VOCs	<1.0	No significant change in location.
BW37-008	748906.396	2082017.504	748916.280	2082017.410	Surface Soil Subsurface Soil	0.0 - 0.5 0.5 - 2.5	Radionuclides, Metals Radionuclides, Metals, VOCs	9.9N	Relocated because of utilities.
BW37-009	748932.161	2082042.647	748932.192	2082042.701	Surface Soil Subsurface Soil	0.0 - 0.5 0.5 - 2.5	Radionuclides, Metals Radionuclides, Metals, VOCs	<1.0	No significant change in location.
BW37-010	748957.927	2082067.789	748957.937	2082067.726	Surface Soil Subsurface Soil	0.0 - 0.5 0.5 - 2.5	Radionuclides, Metals Radionuclides, Metals, VOCs	<1.0	No significant change in location. Asphalt 0'-0.3'.
BW37-011	748871.739	2082027.246	748871.646	2082020.575	Surface Soil Subsurface Soil	0.3 - 0.8 0.8 - 2.8	Radionuclides, Metals Radionuclides, Metals, VOCs	6.7W	Relocated because of electrical line. Asphalt 0'-0.3'.
BW37-012	748897.505	2082052.389	748894.914	2082053.040	Surface Soil Subsurface Soil	0.0 - 0.5 0.5 - 2.5	Radionuclides, Metals, PCBs, SVOCs Radionuclides, Metals, VOCs, PCBs, SVOCs	2.7S	Relocated because of alarm line. Asphalt 0'-0.5'.
BW37-013	748923.270	2082077.532	748923.174	2082077.476	Surface Soil Subsurface Soil	0.0 - 0.5 0.5 - 2.5	Radionuclides, Metals, PCBs, SVOCs Radionuclides, Metals, VOCs, PCBs, SVOCs	<1.0	No significant change in location. Asphalt 0'-0.7'.
BW37-014	748949.035	2082102.674	748949.026	2082102.629	Surface Soil Subsurface Soil	0.0 - 0.5 0.5 - 2.5	Radionuclides, Metals Radionuclides, Metals, VOCs	<1.0	No significant change in location.
BW37-015	748837.083	2082036.989	748836.773	2082039.960	Surface Soil Subsurface Soil	0.0 - 0.5 0.5 - 2.5	Radionuclides, Metals Radionuclides, Metals, VOCs	3.0E	Relocated because of sewer lines.
BW37-016	748862.848	2082062.131	748866.421	2082055.829	Surface Soil Subsurface Soil	0.0 - 0.5 0.5 - 2.5	Radionuclides, Metals Radionuclides, Metals, VOCs	7.2NW	Relocated because of sewer and telephone lines. Asphalt 0'-0.7'.
BW37-017	748914.378	2082112.416	748914.317	2082112.451	Surface Soil Subsurface Soil	0.0 - 0.5 0.5 - 2.5	Radionuclides, Metals, PCBs, SVOCs Radionuclides, Metals, VOCs, PCBs, SVOCs	<1.0	No significant change in location. Asphalt 0'-1'.
BW37-018	748776.660	2082021.588	748774.189	2082019.444	Surface Soil Subsurface Soil	0.0 - 0.5 0.5 - 2.5	Radionuclides, Metals Radionuclides, Metals, VOCs	3.3SW	Relocated because of 13.8 kilovolt electrical line and because of rig access considerations.

Location	Proposed Northing	Proposed Easting	Actual Northing	Actual Easting	Actual Media	Actual Depth Interval (ft bgs)	Actual Analytes	Deviation from Proposed (ft)	Comment
BW37-019	748802.426	2082046.731	748802.398	2082046.677	Surface Soil Subsurface Soil	0.0 - 0.5 0.5 - 2.5	Radionuclides, Metals Radionuclides, Metals, VOCs	<1.0	No significant change in location.
BW37-020	748828.191	2082071.873	748827.943	2082052.011	Surface Soil Subsurface Soil	0.0 - 0.5 0.5 - 2.5	Radionuclides, Metals Radionuclides, Metals, VOCs	19.9 W	Relocated because of power lines
BW37-021	748767.769	2082056.473	748767.735	2082055.975	Surface Soil Subsurface Soil	0.0 - 0.5 0.5 - 2.5	Radionuclides, Metals Radionuclides, Metals, VOCs	<1.0	No significant change in location.
BX35-005	748455.858	2082144.152	748444.847	2082144.465	Surface Soil Subsurface Soil	0.0 - 0.5 0.5 - 2.5	Radionuclides, Metals Radionuclides, Metals, VOCs	11.0 S	Relocated because of utilities.
BX35-006	748481.624	2082169.295	748473.571	2082169.793	Surface Soil Subsurface Soil	0.0 - 0.5 0.5 - 1.5	Radionuclides, Metals Radionuclides, Metals, VOCs	8.1 S	Relocated because of utilities. Core loss in B interval.
BX35-007	748507.389	2082194.437	748507.345	2082194.333	Surface Soil Subsurface Soil	0.0 - 0.5 0.5 - 2.5	Radionuclides, Metals, Pesticides Radionuclides, Metals, VOCs, Pesticides	<1.0	No significant change in location.
BX35-008	748421.201	2082153.894	748416.910	2082153.797	Surface Soil Subsurface Soil	0.0 - 0.5 0.5 - 2.5	Radionuclides, Metals Radionuclides, Metals, VOCs	4.3 S	Relocated because of utilities.
BX35-009	748446.967	2082179.037	748443.651	2082173.624	Surface Soil Subsurface Soil	0.0 - 0.5 0.5 - 2.5	Radionuclides, Metals Radionuclides, Metals, VOCs	6.3 SW	Relocated because of utilities.
BX35-010	748472.732	2082204.179	748472.706	2082204.097	Surface Soil Subsurface Soil	0.0 - 0.5 0.5 - 2.1	Radionuclides, Metals Radionuclides, Metals, VOCs	<1.0	No significant change in location. Core loss in B interval.
BX35-011	748498.497	2082229.322	748498.531	2082229.290	Surface Soil Subsurface Soil	0.0 - 0.5 0.5 - 2.5	Radionuclides, Metals, Pesticides Radionuclides, Metals, VOCs, Pesticides	<1.0	No significant change in location.
BX35-012	748524.263	2082254.464	748524.243	2082254.365	Surface Soil Subsurface Soil	0.0 - 0.5 0.5 - 2.5	Radionuclides, Metals, PCBs, SVOCs Radionuclides, Metals, VOCs, PCBs	<1.0	No significant change in location. Asphalt 0'-0.5'. PCBs were analyzed in the B interval instead of pesticides.
BX35-013	748550.028	2082279.607	748549.952	2082279.614	Surface Soil Subsurface Soil	0.0 - 0.5 0.5 - 1.3	Radionuclides, Metals Radionuclides, Metals, VOCs	<1.0	No significant change in location. B interval refusal, however all analyses were completed.

Location	Proposed Northing	Proposed Easting	Actual Northing	Actual Easting	Actual Media	Actual Depth Interval (ft bgs)	Actual Analytes	Deviation from Proposed (ft)	Comment
BX35-014	748386.545	2082163.636	748386.536	2082163.590	Surface Soil	0.0 - 0.5	Radionuclides, Metals	<1.0	No significant change in location.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		
BX35-015	748412.310	2082188.779	748402.944	2082179.575	Surface Soil	0.0 - 0.5	Radionuclides, Metals	13.1 SW	Relocated because of red concrete (indicating underground electrical lines).
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		
BX35-016	748438.075	2082213.922	748435.526	2082214.186	Surface Soil	0.0 - 0.5	Radionuclides, Metals	2.6 S	Relocated because of utilities.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		
BX35-017	748463.841	2082239.064	748463.851	2082239.044	Surface Soil	0.0 - 0.5	Radionuclides, Metals	<1.0	No significant change in location.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		
BX35-018	748489.606	2082264.207	748489.572	2082263.992	Surface Soil	0.0 - 0.5	Radionuclides, Metals, Pesticides	<1.0	No significant change in location.
					Subsurface Soil	0.5 - 1.5	Radionuclides, Metals, VOCs, Pesticides		
BX35-019	748515.371	2082289.349	748515.380	2082289.343	Surface Soil	0.0 - 0.5	Radionuclides, Metals	<1.0	No significant change in location. Asphalt 0'-0.5'.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		
BX35-020	748377.653	2082198.521	748382.082	2082199.317	Surface Soil	0.0 - 0.5	Radionuclides, Metals	4.5 N	Relocated because of utilities.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		
BX35-021	748403.419	2082223.664	748403.422	2082223.707	Surface Soil	0.0 - 0.5	Radionuclides, Metals	<1.0	No significant change in location.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		
BX35-022	748454.949	2082273.949	748454.953	2082273.986	Surface Soil	0.0 - 0.5	Radionuclides, Metals	<1.0	No significant change in location. Asphalt 0'-0.5'.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		
BX35-023	748480.715	2082299.091	748480.761	2082299.029	Surface Soil	0.0 - 0.5	Radionuclides, Metals	<1.0	No significant change in location.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		
BX35-024	748394.527	2082258.548	748394.459	2082258.573	Surface Soil	0.0 - 0.5	Radionuclides, Metals	<1.0	No significant change in location.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		
BX35-025	748446.058	2082308.833	748446.151	2082305.321	Surface Soil	0.0 - 0.5	Radionuclides, Metals	3.5 W	Relocated because of domestic and rainwater pipes
					Subsurface Soil	0.5 - 1.0	Radionuclides, Metals, VOCs		
BX35-026	748385.636	2082293.433	748385.630	2082293.418	Surface Soil	0.0 - 0.5	Radionuclides, Metals	<1.0	No significant change in location.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		
					Subsurface Soil	2.5 - 4.5	Radionuclides, Metals, VOCs		
					Subsurface Soil	4.5 - 6.5	Radionuclides, Metals, VOCs		
					Subsurface Soil	6.5 - 8.5	Radionuclides, Metals, VOCs		

Location	Proposed Northing	Proposed Easting	Actual Northing	Actual Easting	Actual Media	Actual Depth Interval (ft bgs)	Actual Analytes	Deviation from Proposed (ft)	Comment
					Subsurface Soil	8.5 - 10.5	Radionuclides, Metals, VOCs		
BX36-018	748741.095	2082161.127	748740.841	2082158.325	Surface Soil	0.0 - 0.5	Radionuclides, Metals	2.8 W	Relocated because of underground lines.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		
BX36-019	748680.673	2082145.727	748680.784	2082145.879	Surface Soil	0.0 - 0.5	Radionuclides, Metals	<1.0	No significant change in location.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		
BX36-020	748706.438	2082170.869	748706.353	2082170.806	Subsurface Soil	1.5 - 3.5	VOCs	<1.0	This sample location very closely overlaps with BX36-006, which was sampled previously under IHSS Group 400-3 in the A and B intervals for radionuclides and metals. This location was sampled only for VOCs. Asphalt and road base 0'-1.5'.
BX36-021	748732.200	2082196.010	-----	-----	-----	-----	-----	-----	This sample location was eliminated because of very close overlap with location BX36-001, previously sampled under IHSS Group 400-3.
BX36-022	748584.685	2082269.865	748584.657	2082269.876	Surface Soil	0.0 - 0.5	Radionuclides, Metals	<1.0	No significant change in location.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		
BX36-023	748601.559	2082329.892	748601.652	2082329.958	Surface Soil	0.0 - 0.5	Radionuclides, Metals	<1.0	No significant change in location.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		
BX37-012	748940.144	2082137.559	748940.121	2082137.551	Surface Soil	0.0 - 0.5	Radionuclides, Metals	<1.0	No significant change in location. Asphalt 0'-0.5'.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		
BX37-013	748905.487	2082147.301	748908.138	2082147.290	Surface Soil	0.0 - 0.5	Radionuclides, Metals, SVOCs	2.7N	Relocated for sample collection rig access. Asphalt 0'-0.3'.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs, SVOCs		
BX37-014	748931.252	2082172.444	748931.293	2082172.471	Surface Soil	0.0 - 0.5	Radionuclides, Metals, SVOCs	<1.0	No significant change in location. Asphalt 0'-0.7'.

Location	Proposed Northing	Proposed Easting	Actual Northing	Actual Easting	Actual Media	Actual Depth Interval (ft bgs)	Actual Analytes	Deviation from Proposed (ft)	Comment
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs, SVOCs		
BX37-015	748957.018	2082197.586	748957.062	2082197.572	Surface Soil	0.0 - 0.5	Radionuclides, Metals, SVOCs	<1.0	No significant change in location.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs, SVOCs		
BX37-016	748922.361	2082207.328	748922.458	2082207.287	Surface Soil	0.0 - 0.5	Radionuclides, Metals, SVOCs	<1.0	No significant change in location. Asphalt 0'-0.5'.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs, SVOCs		
BX37-017	748948.126	2082232.471	748948.146	2082232.486	Surface Soil	0.0 - 0.5	Radionuclides, Metals, SVOCs	<1.0	No significant change in location. Asphalt 0'-0.5'.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs, SVOCs		
BX37-018	748913.469	2082242.213	748913.451	2082242.134	Surface Soil	0.0 - 0.5	Radionuclides, Metals, SVOCs	<1.0	No significant change in location. Asphalt 0'-0.5'.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs, SVOCs		
BX37-019	748939.235	2082267.356	748939.276	2082267.306	Surface Soil	0.0 - 0.5	Radionuclides, Metals	<1.0	No significant change in location. Asphalt 0'-0.5'.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		
BX37-020	748904.578	2082277.098	748909.235	2082263.861	Surface Soil	1.0 - 1.5	Radionuclides, Metals	14.0NW	Relocated because of concrete pad and red concrete (indicating buried electrical lines). Asphalt 0'-1'.
					Subsurface Soil	1.5 - 3.5	Radionuclides, Metals, VOCs		
BX37-021	748930.343	2082302.240	748930.346	2082302.225	Surface Soil	0.0 - 0.5	Radionuclides, Metals	<1.0	No significant change in location. Asphalt 0'-0.5'.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		
BY35-006	748437.166	2082343.718	748437.206	2082343.721	Surface Soil	0.0 - 0.5	Radionuclides, Metals	<1.0	No significant change in location. Refusal in B interval.
					Subsurface Soil	0.5 - 1.0	Radionuclides, Metals, VOCs		
BY35-007	748462.932	2082368.861	748462.969	2082368.827	Surface Soil	0.0 - 0.5	Radionuclides, Metals	<1.0	No significant change in location. Core loss in B interval.
					Subsurface Soil	0.5 - 2.0	Radionuclides, Metals, VOCs		
BY35-008	748514.462	2082419.146	748514.426	2082419.086	Surface Soil	0.0 - 0.5	Radionuclides, Metals, Cyanide, PCBs, Pesticides, SVOCs	<1.0	No significant change in location.

Location	Proposed Northing	Proposed Easting	Actual Northing	Actual Easting	Actual Media	Actual Depth Interval (ft bgs)	Actual Analytes	Deviation from Proposed (ft)	Comment
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs, Cyanide, PCBs, Pesticides, SVOCs		
BY35-009	748540.228	2082444.288	748540.248	2082444.235	Surface Soil	0.0 - 0.5	Radionuclides, Metals, Cyanide, PCBs, Pesticides, SVOCs	<1.0	No significant change in location.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, Cyanide, PCBs, Pesticides, SVOCs		
BY35-010	748428.275	2082378.603	748431.342	2082378.524	Surface Soil	0.0 - 0.5	Radionuclides, Metals	3.1N	Relocated because of utilities. Core loss in B interval because of refusal, however all analyses were completed.
					Subsurface Soil	0.5 - 1.5	Radionuclides, Metals, VOCs		
BY35-011	748454.040	2082403.745	748454.076	2082403.657	Surface Soil	0.0 - 0.5	Radionuclides, Metals	<1.0	No significant change in location. Core loss in B interval because of refusal, however all analyses were completed.
					Subsurface Soil	0.5 - 1.0	Radionuclides, Metals, VOCs		
BY35-012	748505.571	2082454.031	748505.523	2082454.023	Surface Soil	0.0 - 0.5	Radionuclides, Metals, Cyanide, PCBs, Pesticides, SVOCs	<1.0	No significant change in location.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs, Cyanide, PCBs, Pesticides, SVOCs		
BY35-013	748531.336	2082479.173	748531.325	2082479.180	Surface Soil	0.0 - 0.5	Radionuclides, Metals, Cyanide, PCBs, Pesticides, SVOCs	<1.0	No significant change in location.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs, Cyanide, PCBs, Pesticides, SVOCs		
BY35-014	748557.101	2082504.316	748557.084	2082504.328	Surface Soil	0.0 - 0.5	Radionuclides, Metals, Cyanide	<1.0	No significant change in location.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs, Cyanide		
BY35-015	748419.383	2082413.488	748419.226	2082416.680	Surface Soil	0.0 - 0.5	Radionuclides, Metals	3.2E	Relocated because of building

Location	Proposed Northing	Proposed Easting	Actual Northing	Actual Easting	Actual Media	Actual Depth Interval (ft bgs)	Actual Analytes	Deviation from Proposed (ft)	Comment
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		electrical line.
BY35-016	748445.149	2082438.630	748440.877	2082438.771	Surface Soil	0.0 - 0.5	Radionuclides, Metals	4.3S	Relocated because of transformer.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		
BY35-017	748496.679	2082488.915	748540.182	2082444.037	Surface Soil	0.5 - 1.0	Radionuclides, Metals, Cyanide, PCBs, Pesticides, SVOCs	62.5NW	The A and B interval samples for BY35-017 were inadvertently collected at the proposed BY35-009 location. Location BW35-043 was subsequently sampled in the A and B intervals at the proposed BY35-017 location to compensate. Asphalt 0'-0.5'. Core loss in B interval, however, all analyses were completed.
					Subsurface Soil	1.0 - 2.0	Radionuclides, Metals, VOCs, Cyanide, PCBs, Pesticides, SVOCs		
BY35-017-01	748496.679	2082488.915	748496.673	2082489.230	Subsurface Soil	2.5 - 4.5	Radionuclides, Metals, VOCs, Cyanide, PCBs, Pesticides, SVOCs	<1.0	The C, D, E, and F intervals for BY35-017 were sampled at the proposed BY35-017 location. The location code for these intervals was subsequently changed to BY35-017-01 in order to distinguish from the A and B intervals that were collected at a different location.
					Subsurface Soil	4.5 - 6.5	Radionuclides, Metals, VOCs, Cyanide, PCBs, Pesticides, SVOCs		
					Subsurface Soil	6.5 - 8.5	Radionuclides, Metals, VOCs, Cyanide, PCBs, Pesticides, SVOCs		
					Subsurface Soil	8.5 - 10.5	Radionuclides, Metals, VOCs, Cyanide, PCBs, Pesticides, SVOCs		
BY35-018	748522.445	2082514.058	748523.313	2082514.205	Surface Soil	0.0 - 0.5	Radionuclides, Metals, Cyanide	<1.0	No significant change in location.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs, Cyanide		
					Subsurface Soil	2.5 - 4.5	Radionuclides, Metals, VOCs, Cyanide		
					Subsurface Soil	4.5 - 6.5	Radionuclides, Metals, VOCs, Cyanide		

Location	Proposed Northing	Proposed Easting	Actual Northing	Actual Easting	Actual Media	Actual Depth Interval (ft bgs)	Actual Analytes	Deviation from Proposed (ft)	Comment
					Subsurface Soil	6.5 - 8.5	Radionuclides, Metals, VOCs, Cyanide		
					Subsurface Soil	8.5 - 10.5	Radionuclides, Metals, VOCs, Cyanide		
BY35-019	748384.727	2082423.230	748384.708	2082423.194	Surface Soil	0.0 - 0.5	Radionuclides, Metals	<1.0	No significant change in location.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		
BY35-020	748410.492	2082448.372	748410.527	2082448.334	Surface Soil	0.0 - 0.5	Radionuclides, Metals	<1.0	No significant change in location.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		
					Subsurface Soil	2.5 - 4.5	Radionuclides, Metals, VOCs		
					Subsurface Soil	4.5 - 6.5	Radionuclides, Metals, VOCs		
					Subsurface Soil	6.5 - 8.5	Radionuclides, Metals, VOCs		
					Subsurface Soil	8.5 - 10.5	Radionuclides, Metals, VOCs		
BY35-021	748436.257	2082473.515	748436.327	2082473.584	Surface Soil	0.0 - 0.5	Radionuclides, Metals	<1.0	No significant change in location.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		
BY35-022	748462.023	2082498.657	748462.048	2082498.673	Surface Soil	0.0 - 0.5	Radionuclides, Metals	<1.0	No significant change in location.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		
BY35-023	748375.835	2082458.114	748379.300	2082453.770	Surface Soil	0.0 - 0.5	Radionuclides, Metals	5.6NW	Relocated because of Building 440 electrical equipment.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		
					Subsurface Soil	2.5 - 4.5	Radionuclides, Metals, VOCs		
					Subsurface Soil	4.5 - 6.5	Radionuclides, Metals, VOCs		
					Subsurface Soil	6.5 - 8.5	Radionuclides, Metals, VOCs		
					Subsurface Soil	8.5 - 10.5	Radionuclides, Metals, VOCs		
BY35-024	748401.601	2082483.257	748405.025	2082480.264	Surface Soil	0.0 - 0.5	Radionuclides, Metals	4.5NW	Relocated because of Building 440 electrical equipment.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		
BY35-025	748427.366	2082508.400	748427.507	2082508.434	Surface Soil	0.0 - 0.5	Radionuclides, Metals	<1.0	No significant change in location.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		
BY35-026	748453.131	2082533.542	748453.168	2082533.498	Surface Soil	0.0 - 0.5	Radionuclides, Metals	<1.0	No significant change in location.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		
BY35-027	748392.709	2082518.142	748392.771	2082518.088	Surface Soil	0.0 - 0.5	Radionuclides, Metals	<1.0	No significant change in location.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		
					Subsurface Soil	2.5 - 4.5	Radionuclides, Metals, VOCs		
					Subsurface Soil	4.5 - 6.5	Radionuclides, Metals, VOCs		

Location	Proposed Northing	Proposed Easting	Actual Northing	Actual Easting	Actual Media	Actual Depth Interval (ft bgs)	Actual Analytes	Deviation from Proposed (ft)	Comment
					Subsurface Soil	6.5 - 8.5	Radionuclides, Metals, VOCs		
					Subsurface Soil	8.5 - 10.5	Radionuclides, Metals, VOCs		
BY36-019	748635.306	2082449.947	748635.407	2082464.994	Surface Soil	0.0 - 0.5	Radionuclides, Metals, VOCs	15.0E	Relocated because of utilities.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		
BY36-020	748661.072	2082475.089	748661.126	2082475.072	Surface Soil	0.0 - 0.5	Radionuclides, Metals	<1.0	No significant change in location. Asphalt 0'-0.4'.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		
BY36-021	748712.602	2082525.374	748708.422	2082541.924	Surface Soil	0.0 - 0.5	Radionuclides, Metals	17.1SE	Relocated because of utilities.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		
BY36-022	748600.650	2082459.689	748600.633	2082459.708	Surface Soil	0.0 - 0.5	Radionuclides, Metals, Cyanide	<1.0	No significant change in location. Asphalt 0'-0.4'.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs, Cyanide		
BY36-023	748626.415	2082484.831	748626.390	2082484.841	Surface Soil	0.0 - 0.5	Radionuclides, Metals	<1.0	No significant change in location.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		
BY36-024	748652.180	2082509.974	748645.052	2082506.089	Surface Soil	0.0 - 0.5	Radionuclides, Metals	8.1SW	Relocated because of water and alarm lines.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		
BY36-025	748677.946	2082535.117	748681.514	2082539.991	Surface Soil	0.0 - 0.5	Radionuclides, Metals	6.0NE	Relocated because of concrete pad
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		
BY36-026	748565.993	2082469.431	748566.461	2082476.484	Surface Soil	0.0 - 0.5	Radionuclides, Metals, Cyanide, PCBs, Pesticides, SVOCs	7.1E	Relocated because of utilities. Asphalt 0'-0.7'.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs, Cyanide, PCBs, Pesticides, SVOCs		
BY36-027	748591.758	2082494.574	748591.754	2082494.586	Surface Soil	0.0 - 0.5	Radionuclides, Metals, Cyanide	<1.0	No significant change in location.
					Subsurface Soil	0.5 - 1.5	Radionuclides, Metals, VOCs, Cyanide		
BY36-028	748617.524	2082519.716	748617.479	2082519.773	Surface Soil	0.0 - 0.5	Radionuclides, Metals	<1.0	No significant change in location.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		
BY36-029	748582.867	2082529.458	748582.834	2082529.476	Surface Soil	0.0 - 0.5	Radionuclides, Metals	<1.0	No significant change in location.
					Subsurface Soil	0.5 - 1.0	Radionuclides, Metals, VOCs		
BY37-017	748921.452	2082337.125	748921.490	2082337.075	Surface Soil	0.0 - 0.5	Radionuclides, Metals	<1.0	No significant change in

Location	Proposed Northing	Proposed Easting	Actual Northing	Actual Easting	Actual Media	Actual Depth Interval (ft bgs)	Actual Analytes	Deviation from Proposed (ft)	Comment
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		location. Asphalt 0'-1'.
BY37-018	748947.217	2082362.268	748947.199	2082362.322	Surface Soil	0.0 - 0.5	Radionuclides, Metals	<1.0	No significant change in location.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		
BY37-019	748912.560	2082372.010	748912.542	2082372.031	Surface Soil	0.0 - 0.5	Radionuclides, Metals	<1.0	No significant change in location. Asphalt 0'-0.8'.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		
BY37-020	748938.326	2082397.152	748938.372	2082397.083	Surface Soil	0.0 - 0.5	Radionuclides, Metals	<1.0	No significant change in location. Asphalt 0'-1'.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		
BY37-021	748929.434	2082432.037	748929.357	2082432.007	Surface Soil	0.0 - 0.5	Radionuclides, Metals	<1.0	No significant change in location. Asphalt 0'-1'.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		
BY37-022	748920.543	2082466.922	748920.529	2082466.921	Surface Soil	0.0 - 0.5	Radionuclides, Metals	<1.0	No significant change in location.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		
BY37-023	748946.308	2082492.064	748946.255	2082492.065	Surface Soil	0.0 - 0.5	Radionuclides, Metals	<1.0	No significant change in location.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		
BY37-024	748911.651	2082501.806	748914.395	2082521.549	Surface Soil	0.0 - 0.5	Radionuclides, Metals	19.9NE	Relocated because of storm drain and conex.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		
BY37-025	748937.417	2082526.949	748937.462	2082526.956	Surface Soil	0.0 - 0.5	Radionuclides, Metals	<1.0	No significant change in location. Asphalt 0'-0.4'.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		
BY37-026	748902.760	2082536.691	748902.749	2082537.015	Surface Soil	0.0 - 0.5	Radionuclides, Metals	<1.0	No significant change in location. Core loss in B interval.
					Subsurface Soil	0.5 - 1.6	Radionuclides, Metals, VOCs		
BZ35-004-01	748556.192	2082634.112	748556.181	2082634.083	Surface Soil	0.0 - 0.5	Radionuclides, Metals	<1.0	No significant change in location.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		
BZ35-005-01	748418.474	2082543.284	748418.460	2082543.367	Surface Soil	0.0 - 0.5	Radionuclides, Metals	<1.0	No significant change in location.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		
BZ35-006-01	748444.240	2082568.427	748444.192	2082568.424	Surface Soil	0.0 - 0.5	Radionuclides, Metals	<1.0	No significant change in location.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		
BZ35-007-01	748383.818	2082553.026	748383.750	2082553.038	Surface Soil	0.0 - 0.5	Radionuclides, Metals	<1.0	No significant change in location.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		
					Subsurface Soil	2.5 - 4.5	Radionuclides, Metals, VOCs		
					Subsurface Soil	4.5 - 6.5	Radionuclides, Metals, VOCs		
					Subsurface Soil	6.5 - 8.5	Radionuclides, Metals, VOCs		
					Subsurface Soil	8.5 - 10.5	Radionuclides, Metals, VOCs		

Location	Proposed Northing	Proposed Easting	Actual Northing	Actual Easting	Actual Media	Actual Depth Interval (ft bgs)	Actual Analytes	Deviation from Proposed (ft)	Comment
BZ35-008-01	748409.583	2082578.169	748409.599	2082578.159	Surface Soil	0.0 - 0.5	Radionuclides, Metals	<1.0	No significant change in location.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		
					Subsurface Soil	2.5 - 4.5	Radionuclides, Metals, VOCs		
					Subsurface Soil	1.5 - 6.5	Radionuclides, Metals, VOCs		
					Subsurface Soil	6.5 - 8.5	Radionuclides, Metals, VOCs		
					Subsurface Soil	8.5 - 10.5	Radionuclides, Metals, VOCs		
BZ35-009	748435.348	2082603.311	748435.307	2082603.334	Surface Soil	0.0 - 0.5	Radionuclides, Metals	<1.0	No significant change in location.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		
					Subsurface Soil	2.5 - 4.5	Radionuclides, Metals, VOCs		
					Subsurface Soil	4.5 - 6.5	Radionuclides, Metals, VOCs		
					Subsurface Soil	6.5 - 8.5	Radionuclides, Metals, VOCs		
					Subsurface Soil	8.5 - 10.5	Radionuclides, Metals, VOCs		
BZ35-010-02	748461.114	2082628.454	748461.100	2082628.471	Surface Soil	0.0 - 0.5	Radionuclides, Metals	<1.0	No significant change in location.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		
					Subsurface Soil	2.5 - 4.5	Radionuclides, Metals, VOCs		
					Subsurface Soil	4.5 - 6.5	Radionuclides, Metals, VOCs		
					Subsurface Soil	6.5 - 8.5	Radionuclides, Metals, VOCs		
					Subsurface Soil	8.5 - 10.5	Radionuclides, Metals, VOCs		
BZ36-006	748729.476	2082585.402	748729.523	2082585.384	Surface Soil	0.0 - 0.5	Radionuclides, Metals	<1.0	No significant change in location. Asphalt 0'-0.8'.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		
BZ36-007	748755.242	2082610.544	748755.292	2082615.863	Surface Soil	0.0 - 0.5	Radionuclides, Metals	5.3 E	Relocated because of water and power lines.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		
BZ36-008	748643.289	2082544.859	748643.253	2082544.851	Surface Soil	0.5 - 1.0	Radionuclides, Metals	<1.0	No significant change in location. Asphalt 0'-0.5'.
					Subsurface Soil	1.0 - 3.0	Radionuclides, Metals, VOCs		
BZ36-009	748669.054	2082570.001	748669.070	2082569.988	Surface Soil	0.0 - 0.5	Radionuclides, Metals	<1.0	No significant change in location.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		
BZ36-010	748694.819	2082595.144	748694.805	2082595.095	Surface Soil	0.0 - 0.5	Radionuclides, Metals	<1.0	No significant change in location.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		
BZ36-011	748720.585	2082620.286	748720.587	2082620.333	Surface Soil	0.0 - 0.5	Radionuclides, Metals	<1.0	No significant change in location.
					Subsurface Soil	0.5 - 2.0	Radionuclides, Metals, VOCs		
BZ36-012	748746.350	2082645.429	748746.379	2082645.463	Surface Soil	0.0 - 0.5	Radionuclides, Metals	<1.0	No significant change in location.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		

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BZ36-013	748608.632	2082554.601	748608.609	2082554.570	Surface Soil Subsurface Soil	0.0 - 0.5 0.5 - 2.5	Radionuclides, Metals Radionuclides, Metals, VOCs	<1.0	No significant change in location.
BZ36-014	748634.397	2082579.743	748634.482	2082579.775	Surface Soil Subsurface Soil	0.0 - 0.5 0.5 - 2.5	Radionuclides, Metals Radionuclides, Metals, VOCs	<1.0	Relocated because of utilities.
BZ36-015	748660.163	2082604.886	748660.118	2082604.937	Surface Soil Subsurface Soil	0.0 - 0.5 0.5 - 2.5	Radionuclides, Metals Radionuclides, Metals, VOCs	<1.0	No significant change in location. Asphalt 0'-0.3'.
BZ36-016	748685.928	2082630.029	748685.886	2082630.050	Surface Soil Subsurface Soil	0.0 - 0.5 0.5 - 2.5	Radionuclides, Metals Radionuclides, Metals, VOCs	<1.0	No significant change in location.
BZ36-017	748711.693	2082655.171	748711.698	2082655.123	Surface Soil Subsurface Soil	0.0 - 0.5 0.5 - 2.5	Radionuclides, Metals Radionuclides, Metals, VOCs	<1.0	No significant change in location.
BZ36-018	748573.975	2082564.343	748573.947	2082564.358	Surface Soil Subsurface Soil	0.0 - 0.5 0.5 - 2.5	Radionuclides, Metals Radionuclides, Metals, VOCs	<1.0	No significant change in location. Asphalt 0'-0.2'.
BZ36-019	748599.741	2082589.486	748599.786	2082589.499	Surface Soil Subsurface Soil	0.0 - 0.5 0.5 - 2.5	Radionuclides, Metals Radionuclides, Metals, VOCs	<1.0	No significant change in location.
BZ36-020	748625.506	2082614.628	748625.475	2082614.606	Surface Soil Subsurface Soil	0.0 - 0.5 0.5 - 2.5	Radionuclides, Metals Radionuclides, Metals, VOCs	<1.0	No significant change in location.
BZ36-021	748651.271	2082639.771	748651.281	2082639.711	Surface Soil Subsurface Soil	0.0 - 0.5 0.5 - 2.5	Radionuclides, Metals Radionuclides, Metals, VOCs	<1.0	No significant change in location. Asphalt 0'-0.8'.
BZ36-022	748677.037	2082664.913	748677.072	2082664.934	Surface Soil Subsurface Soil	0.0 - 0.5 0.5 - 2.5	Radionuclides, Metals Radionuclides, Metals, VOCs	<1.0	No significant change in location.
BZ36-023	748565.084	2082599.228	748565.076	2082599.290	Surface Soil Subsurface Soil	0.0 - 0.5 0.5 - 2.5	Radionuclides, Metals Radionuclides, Metals, VOCs	<1.0	No significant change in location.
BZ36-024	748590.849	2082624.370	748590.814	2082624.354	Surface Soil Subsurface Soil	0.0 - 0.5 0.5 - 2.5	Radionuclides, Metals Radionuclides, Metals, VOCs	<1.0	No significant change in location.
BZ36-025	748616.615	2082649.513	748616.668	2082649.540	Surface Soil Subsurface Soil	0.0 - 0.5 0.5 - 2.5	Radionuclides, Metals Radionuclides, Metals, VOCs	<1.0	No significant change in location.
BZ36-026	748581.958	2082659.255	748582.000	2082659.189	Surface Soil Subsurface Soil	0.0 - 0.5 0.5 - 2.2	Radionuclides, Metals Radionuclides, Metals, VOCs	<1.0	No significant change in location.
BZ37-003	748928.525	2082561.834	748928.515	2082561.845	Surface Soil Subsurface Soil	0.5 - 1.0 0.5 - 2.5	Radionuclides, Metals Radionuclides, Metals, VOCs	<1.0	No significant change in location. Asphalt 0'-0.5'.
BZ37-004	748954.291	2082586.976	748949.922	2082587.164	Surface Soil Subsurface Soil	0.0 - 0.5 0.5 - 2.5	Radionuclides, Metals Radionuclides, Metals, VOCs	4.4S	Relocated because of water and sewer lines.

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BZ37-005	748893.869	2082571.576	748893.935	2082571.665	Surface Soil	1.0 - 1.5	Radionuclides, Metals	<1.0	No significant change in location. Asphalt 0'-1'.
					Subsurface Soil	1.5 - 2.5	Radionuclides, Metals, VOCs		
BZ37-006	748919.634	2082596.718	748913.229	2082591.552	Surface Soil	0.0 - 0.5	Radionuclides, Metals	8.2SW	Relocated because of water lines.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		
BZ37-007	748945.399	2082621.861	748945.433	2082621.830	Surface Soil	0.0 - 0.5	Radionuclides, Metals	<1.0	No significant change in location.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		
					Subsurface Soil	2.5 - 4.5	Radionuclides, Metals, VOCs		
					Subsurface Soil	4.5 - 6.5	Radionuclides, Metals, VOCs		
					Subsurface Soil	6.5 - 8.5	Radionuclides, Metals, VOCs		
					Subsurface Soil	8.5 - 10.5	Radionuclides, Metals, VOCs		
BZ37-008	748859.212	2082581.318	748859.241	2082581.274	Surface Soil	0.0 - 0.5	Radionuclides, Metals	<1.0	No significant change in location.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		
BZ37-009	748884.977	2082606.460	748884.946	2082606.463	Surface Soil	0.0 - 0.5	Radionuclides, Metals	<1.0	No significant change in location.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		
BZ37-010	748910.742	2082631.603	748910.720	2082631.635	Surface Soil	0.0 - 0.5	Radionuclides, Metals	<1.0	No significant change in location.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		
BZ37-011	748936.508	2082656.746	748936.491	2082656.742	Surface Soil	0.0 - 0.5	Radionuclides, Metals	<1.0	No significant change in location. The SAP Addendum called for cyanide in the E interval, but this analysis was omitted.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		
					Subsurface Soil	2.5 - 4.5	Radionuclides, Metals, VOCs		
					Subsurface Soil	4.5 - 6.5	Radionuclides, Metals, VOCs		
					Subsurface Soil	6.5 - 8.5	Radionuclides, Metals, VOCs		
					Subsurface Soil	8.5 - 10.5	Radionuclides, Metals, VOCs		
BZ37-012	748824.555	2082591.060	748824.548	2082591.036	Surface Soil	0.0 - 0.5	Radionuclides, Metals	<1.0	No significant change in location. Core loss in B interval.
					Subsurface Soil	0.5 - 1.5	Radionuclides, Metals, VOCs		
BZ37-013	748850.320	2082616.203	748850.582	2082621.345	Surface Soil	0.0 - 0.5	Radionuclides, Metals	5.1E	Relocated because of alarm line.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		
BZ37-014	748876.086	2082641.345	748876.027	2082641.333	Surface Soil	0.0 - 0.5	Radionuclides, Metals	<1.0	No significant change in location.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		
BZ37-015	748901.851	2082666.488	748901.853	2082666.432	Surface Soil	0.0 - 0.5	Radionuclides, Metals	<1.0	No significant change in location.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		
BZ37-016	748789.898	2082600.802	748789.841	2082600.852	Surface Soil	0.8 - 1.3	Radionuclides, Metals	<1.0	No significant change in

Location	Proposed Northing	Proposed Easting	Actual Northing	Actual Easting	Actual Media	Actual Depth Interval (ft bgs)	Actual Analytes	Deviation from Proposed (ft)	Comment
					Subsurface Soil	1.3 - 3.3	Radionuclides, Metals, VOCs		location. Asphalt 0'-0.8'.
BZ37-017	748815.664	2082625.945	748815.670	2082625.998	Surface Soil	0.0 - 0.5	Radionuclides, Metals	<1.0	No significant change in location.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		
BZ37-018	748841.429	2082651.087	748841.453	2082651.078	Surface Soil	0.0 - 0.5	Radionuclides, Metals	<1.0	No significant change in location.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		
BZ37-019	748781.007	2082635.687	748781.077	2082635.664	Surface Soil	0.0 - 0.5	Radionuclides, Metals	<1.0	No significant change in location.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		
BZ37-020	748806.772	2082660.829	748806.785	2082660.781	Surface Soil	0.0 - 0.5	Radionuclides, Metals	<1.0	No significant change in location.
					Subsurface Soil	0.5 - 2.5	Radionuclides, Metals, VOCs		

bgs - below ground surface; E - east; N - north; NE - northeast; NW - northwest; S - south; SE - southeast; SW - southwest; W - west; PCB - polychlorinated biphenyl; SVOC - semivolatile organic compound; VOC - volatile organic compound.

Table 3
IHSS Group 400-6 Results Greater Than Background Means Plus Two Standard Deviations or RLs

Location Code	Actual Northing	Actual Easting	Start Depth (ft)	End Depth (ft)	Analyte	Result	Detection Limit	Background Mean+2SD	WRW AL	Unit
BV35-000	748506.98	2081939.16	0.0	0.5	Copper	20		18.06	40900	mg/kg
BV35-001	748410.84	2081927.44	0.5	1.0	Uranium-234	2.814		2.64	300	pCi/g
BV35-001	748410.84	2081927.44	0.5	1.0	Uranium-235	0.1977		0.120	8	pCi/g
BV35-001	748410.84	2081927.44	0.5	1.0	Uranium-238	2.814		1.49	351	pCi/g
BV35-001	748410.84	2081927.44	1.0	3.0	Aluminum	39000		35373.17	228000	mg/kg
BV35-001	748410.84	2081927.44	1.0	3.0	Uranium-238	1.719		1.49	351	pCi/g
BV36-000	748633.57	2081927.57	0.0	0.5	Copper	19		18.06	40900	mg/kg
BV36-000	748633.57	2081927.57	0.0	0.5	Strontium	50		48.94	613000	mg/kg
BV36-000	748633.57	2081927.57	0.0	0.5	Uranium-234	5.206		2.253	300	pCi/g
BV36-000	748633.57	2081927.57	0.0	0.5	Uranium-235	0.2783		0.0939	8	pCi/g
BV36-000	748633.57	2081927.57	0.0	0.5	Uranium-238	5.206		2	351	pCi/g
BV36-000	748633.57	2081927.57	0.5	2.5	Uranium-234	3.748		2.64	300	pCi/g
BV36-000	748633.57	2081927.57	0.5	2.5	Uranium-235	0.184		0.120	8	pCi/g
BV36-000	748633.57	2081927.57	0.5	2.5	Uranium-238	3.748		1.49	351	pCi/g
BW35-006	748534.94	2081959.97	0.0	0.5	Strontium	55		48.94	613000	mg/kg
BW35-006	748534.94	2081959.97	0.0	0.5	Uranium-234	3.928		2.253	300	pCi/g
BW35-006	748534.94	2081959.97	0.0	0.5	Uranium-235	0.2058		0.0939	8	pCi/g
BW35-006	748534.94	2081959.97	0.0	0.5	Uranium-238	3.928		2	351	pCi/g
BW35-006	748534.94	2081959.97	0.5	2.5	Uranium-234	3.885		2.64	300	pCi/g
BW35-006	748534.94	2081959.97	0.5	2.5	Uranium-235	0.1943		0.120	8	pCi/g
BW35-006	748534.94	2081959.97	0.5	2.5	Uranium-238	3.885		1.49	351	pCi/g
BW35-007	748560.68	2081985.19	0.0	0.5	Uranium-234	4.229		2.253	300	pCi/g
BW35-007	748560.68	2081985.19	0.0	0.5	Uranium-235	0.2164		0.0939	8	pCi/g
BW35-007	748560.68	2081985.19	0.0	0.5	Uranium-238	4.229		2	351	pCi/g
BW35-007	748560.68	2081985.19	0.5	2.5	Uranium-234	4.192		2.64	300	pCi/g
BW35-007	748560.68	2081985.19	0.5	2.5	Uranium-235	0.2988		0.120	8	pCi/g
BW35-007	748560.68	2081985.19	0.5	2.5	Uranium-238	4.192		1.49	351	pCi/g
BW35-008	748478.16	2081938.8	0.0	0.5	Uranium-234	5.155		2.253	300	pCi/g
BW35-008	748478.16	2081938.8	0.0	0.5	Uranium-235	0.2982		0.0939	8	pCi/g

Location Code	Actual Northing	Actual Easting	Start Depth (ft)	End Depth (ft)	Analyte	Result	Detection Limit	Background Mean+2SD	WRW AL	Unit
BW35-008	748478.16	2081938.8	0.0	0.5	Uranium-238	5.155		2	351	pCi/g
BW35-008	748478.16	2081938.8	0.5	2.5	Uranium-234	3.672		2.64	300	pCi/g
BW35-008	748478.16	2081938.8	0.5	2.5	Uranium-235	0.2034		0.120	8	pCi/g
BW35-008	748478.16	2081938.8	0.5	2.5	Uranium-238	3.672		1.49	351	pCi/g
BW35-009	748500.29	2081969.74	0.0	0.5	Iron	19000		18037	307000	mg/kg
BW35-009	748500.29	2081969.74	0.0	0.5	Strontium	49		48.94	613000	mg/kg
BW35-009	748500.29	2081969.74	0.5	2.5	Uranium-238	2.159		1.49	351	pCi/g
BW35-010	748526.14	2081995.01	0.2	0.7	Aluminum	29000		16902	228000	mg/kg
BW35-010	748526.14	2081995.01	0.2	0.7	Beryllium	1.2		0.966	921	mg/kg
BW35-010	748526.14	2081995.01	0.2	0.7	Chromium	21		16.99	268	mg/kg
BW35-010	748526.14	2081995.01	0.2	0.7	Copper	29		18.06	40900	mg/kg
BW35-010	748526.14	2081995.01	0.2	0.7	Iron	22000		18037	307000	mg/kg
BW35-010	748526.14	2081995.01	0.2	0.7	Lithium	17		11.55	20400	mg/kg
BW35-010	748526.14	2081995.01	0.2	0.7	Nickel	23		14.91	20400	mg/kg
BW35-010	748526.14	2081995.01	0.2	0.7	Strontium	55		48.94	613000	mg/kg
BW35-010	748526.14	2081995.01	0.2	0.7	Vanadium	56		45.59	7150	mg/kg
BW35-010	748526.14	2081995.01	0.7	1.2	Uranium-235	0.1593		0.120	8	pCi/g
BW35-010	748526.14	2081995.01	0.7	1.2	Uranium-238	1.68		1.49	351	pCi/g
BW35-011	748439.87	2081954.35	0.5	1.0	Uranium-234	2.509		2.253	300	pCi/g
BW35-011	748439.87	2081954.35	0.5	1.0	Uranium-235	0.1843		0.0939	8	pCi/g
BW35-011	748439.87	2081954.35	0.5	1.0	Uranium-238	2.509		2	351	pCi/g
BW35-011	748439.87	2081954.35	1.0	3.0	Arsenic	18		13.14	22.2	mg/kg
BW35-011	748439.87	2081954.35	1.0	3.0	Uranium-238	2.346		1.49	351	pCi/g
BW35-012	748465.69	2081979.03	1.0	1.5	Uranium-235	0.1717		0.120	8	pCi/g
BW35-012	748465.69	2081979.03	1.0	1.5	Uranium-238	1.59		1.49	351	pCi/g
BW35-013	748490.55	2082001.05	0.0	0.5	Aluminum	21000		16902	228000	mg/kg
BW35-013	748490.55	2082001.05	0.0	0.5	Beryllium	0.97		0.966	921	mg/kg
BW35-013	748490.55	2082001.05	0.0	0.5	Chromium	18		16.99	268	mg/kg
BW35-013	748490.55	2082001.05	0.0	0.5	Copper	24		18.06	40900	mg/kg
BW35-013	748490.55	2082001.05	0.0	0.5	Iron	19000		18037	307000	mg/kg
BW35-013	748490.55	2082001.05	0.0	0.5	Lithium	13		11.55	20400	mg/kg

Location Code	Actual Northing	Actual Easting	Start Depth (ft)	End Depth (ft)	Analyte	Result	Detection Limit	Background Mean+2SD	WRW AL	Unit
BW35-013	748490.55	2082001.05	0.0	0.5	Nickel	16		14.91	20400	mg/kg
BW35-013	748490.55	2082001.05	0.5	2.5	Acetone	8	5.6		102000000	ug/kg
BW35-013	748490.55	2082001.05	0.5	2.5	Methylene chloride	1.2	0.98		2530000	ug/kg
BW35-013	748490.55	2082001.05	0.5	2.5	Tetrachloroethene	3.3	1.2		615000	ug/kg
BW35-014	748379.27	2081934.56	0.5	1.0	Aluminum	21000		16902	228000	mg/kg
BW35-014	748379.27	2081934.56	0.5	1.0	Beryllium	1.3		0.966	921	mg/kg
BW35-014	748379.27	2081934.56	0.5	1.0	Iron	24000		18037	307000	mg/kg
BW35-014	**748379.27**	**2081934.56**	**1.0**	**3.0**	**Arsenic**	**24**		**13.14**	**22.2**	**mg/kg**
BW35-014	748379.27	2081934.56	1.0	3.0	Uranium-235	0.1658		0.120	8	pCi/g
BW35-015	748407.55	2081960.45	0.25	0.75	Chromium	18		16.99	268	mg/kg
BW35-015	748407.55	2081960.45	0.25	0.75	Copper	19		18.06	40900	mg/kg
BW35-015	748407.55	2081960.45	0.25	0.75	Uranium-234	3.781		2.253	300	pCi/g
BW35-015	748407.55	2081960.45	0.25	0.75	Uranium-235	0.2576		0.0939	8	pCi/g
BW35-015	748407.55	2081960.45	0.25	0.75	Uranium-238	3.781		2	351	pCi/g
BW35-015	748407.55	2081960.45	0.75	2.75	Uranium-234	4.698		2.64	300	pCi/g
BW35-015	748407.55	2081960.45	0.75	2.75	Uranium-235	0.2172		0.120	8	pCi/g
BW35-015	748407.55	2081960.45	0.75	2.75	Uranium-238	4.698		1.49	351	pCi/g
BW35-016	748431.47	2081992.21	0.0	0.5	Uranium-235	0.1615		0.0939	8	pCi/g
BW35-016	748431.47	2081992.21	0.5	2.5	Uranium-238	1.559		1.49	351	pCi/g
BW35-017	748456.81	2082014.38	0.0	0.5	Aluminum	23000		16902	228000	mg/kg
BW35-017	748456.81	2082014.38	0.0	0.5	Beryllium	1.2		0.966	921	mg/kg
BW35-017	748456.81	2082014.38	0.0	0.5	Chromium	19		16.99	268	mg/kg
BW35-017	748456.81	2082014.38	0.0	0.5	Uranium-235	0.2014		0.0939	8	pCi/g
BW35-017	748456.81	2082014.38	0.5	2.5	Uranium-234	4.144		2.64	300	pCi/g
BW35-017	748456.81	2082014.38	0.5	2.5	Uranium-235	0.2491		0.120	8	pCi/g
BW35-017	748456.81	2082014.38	0.5	2.5	Uranium-238	4.144		1.49	351	pCi/g
BW35-018	748383.21	2081981.83	0.5	1.0	Uranium-235	0.1565		0.0939	8	pCi/g
BW35-018	748383.21	2081981.83	0.5	1.0	Uranium-238	2.051		2	351	pCi/g
BW35-018	748383.21	2081981.83	1.0	3.0	Uranium-235	0.1522		0.120	8	pCi/g
BW35-019	748393.94	2081999.02	0.5	1.0	Uranium-234	4.715		2.253	300	pCi/g
BW35-019	748393.94	2081999.02	0.5	1.0	Uranium-235	0.2384		0.0939	8	pCi/g

Location Code	Actual Northing	Actual Easting	Start Depth (ft)	End Depth (ft)	Analyte	Result	Detection Limit	Background Mean+2SD	WRW AL	Unit
BW35-019	748393.94	2081999.02	0.5	1.0	Uranium-238	4.715		2	351	pCi/g
BW35-019	748393.94	2081999.02	1.0	3.0	Uranium-234	4.011		2.64	300	pCi/g
BW35-019	748393.94	2081999.02	1.0	3.0	Uranium-235	0.1761		0.120	8	pCi/g
BW35-019	748393.94	2081999.02	1.0	3.0	Uranium-238	4.011		1.49	351	pCi/g
BW35-020	748413.45	2082024.07	0.3	0.8	Strontium	50		48.94	613000	mg/kg
BW35-020	748413.45	2082024.07	0.8	2.8	Aluminum	43000		35373.17	228000	mg/kg
BW35-020	748413.45	2082024.07	0.8	2.8	Uranium-235	0.2243		0.120	8	pCi/g
BW35-020	748413.45	2082024.07	0.8	2.8	Uranium-238	2.588		1.49	351	pCi/g
BW35-021	748452.15	2082034.55	0.0	0.5	Uranium-235	0.1585		0.0939	8	pCi/g
BW35-022	748468.73	2082074.34	0.5	1.0	Aluminum	23000		16902	228000	mg/kg
BW35-022	748468.73	2082074.34	0.5	1.0	Beryllium	1.2		0.966	921	mg/kg
BW35-022	748468.73	2082074.34	0.5	1.0	Uranium-234	4.348		2.253	300	pCi/g
BW35-022	748468.73	2082074.34	0.5	1.0	Uranium-235	0.1982		0.0939	8	pCi/g
BW35-022	748468.73	2082074.34	0.5	1.0	Uranium-238	4.348		2	351	pCi/g
BW35-022	748468.73	2082074.34	1.0	3.0	Uranium-234	4.516		2.64	300	pCi/g
BW35-022	748468.73	2082074.34	1.0	3.0	Uranium-235	0.2103		0.120	8	pCi/g
BW35-022	748468.73	2082074.34	1.0	3.0	Uranium-238	4.516		1.49	351	pCi/g
BW35-023	748499.23	2082099.74	0.0	0.5	Uranium-238	1.51		1.49	351	pCi/g
BW35-023	748499.23	2082099.74	0.5	2.2	4-Methyl-2-pentanone	11	4.4		16400000	ug/kg
BW35-023	748499.23	2082099.74	0.5	2.2	Aluminum	37000		35373.17	228000	mg/kg
BW35-023	748499.23	2082099.74	0.5	2.2	Cobalt	41		29.04	1550	mg/kg
BW35-023	748499.23	2082099.74	0.5	2.2	Tetrachloroethene	1.9	1.1		615000	ug/kg
BW35-023	748499.23	2082099.74	0.5	2.2	Xylene	9.9	3.2		2040000	ug/kg
BW35-024	748393.72	2082033.7	0.3	0.8	Aluminum	46000		16902	228000	mg/kg
BW35-024	748393.72	2082033.7	0.3	0.8	Arsenic	17		10.09	22.2	mg/kg
BW35-024	748393.72	2082033.7	0.3	0.8	Beryllium	2.7		0.966	921	mg/kg
BW35-024	748393.72	2082033.7	0.3	0.8	Chromium	35		16.99	268	mg/kg
BW35-024	748393.72	2082033.7	0.3	0.8	Iron	30000		18037	307000	mg/kg
BW35-024	748393.72	2082033.7	0.3	0.8	Lithium	19		11.55	20400	mg/kg
BW35-024	748393.72	2082033.7	0.3	0.8	Mercury	0.23		0.134	25200	mg/kg
BW35-024	748393.72	2082033.7	0.3	0.8	Nickel	26		14.91	20400	mg/kg

Location Code	Actual Northing	Actual Easting	Start Depth (ft)	End Depth (ft)	Analyte	Result	Detection Limit	Background Mean+2SD	WRW AL	Unit
BW35-024	748393.72	2082033.7	0.3	0.8	Uranium-234	3.547		2.253	300	pCi/g
BW35-024	748393.72	2082033.7	0.3	0.8	Uranium-235	0.1905		0.0939	8	pCi/g
BW35-024	748393.72	2082033.7	0.3	0.8	Uranium-238	3.547		2	351	pCi/g
BW35-024	748393.72	2082033.7	0.3	0.8	Vanadium	75		45.59	7150	mg/kg
BW35-024	748393.72	2082033.7	0.8	2.8	Uranium-234	4.907		2.64	300	pCi/g
BW35-024	748393.72	2082033.7	0.8	2.8	Uranium-238	4.907		1.49	351	pCi/g
BW35-025	748413.22	2082059.01	0.75	1.25	Arsenic	11		10.09	22.2	mg/kg
BW35-025	748413.22	2082059.01	0.75	1.25	Chromium	18		16.99	268	mg/kg
BW35-025	748413.22	2082059.01	0.75	1.25	Nickel	17		14.91	20400	mg/kg
BW35-025	748413.22	2082059.01	0.75	1.25	Uranium-235	0.123		0.0939	8	pCi/g
BW35-025	748413.22	2082059.01	1.25	3.25	Uranium-235	0.1398		0.120	8	pCi/g
BW35-026	748429.5	2082074.9	0.5	1.0	Aluminum	19000		16902	228000	mg/kg
BW35-026	748429.5	2082074.9	0.5	1.0	Arsenic	11		10.09	22.2	mg/kg
BW35-026	748429.5	2082074.9	0.5	1.0	Chromium	19		16.99	268	mg/kg
BW35-026	748429.5	2082074.9	0.5	1.0	Lithium	12		11.55	20400	mg/kg
BW35-026	748429.5	2082074.9	0.5	1.0	Nickel	17		14.91	20400	mg/kg
BW35-026	748429.5	2082074.9	0.5	1.0	Uranium-234	4.841		2.253	300	pCi/g
BW35-026	748429.5	2082074.9	0.5	1.0	Uranium-235	0.2626		0.0939	8	pCi/g
BW35-026	748429.5	2082074.9	0.5	1.0	Uranium-238	4.841		2	351	pCi/g
BW35-026	748429.5	2082074.9	1.0	3.0	Aluminum	41000		35373.17	228000	mg/kg
BW35-026	748429.5	2082074.9	1.0	3.0	Arsenic	17		13.14	22.2	mg/kg
BW35-026	748429.5	2082074.9	1.0	3.0	Uranium-234	4.808		2.64	300	pCi/g
BW35-026	748429.5	2082074.9	1.0	3.0	Uranium-235	0.2349		0.120	8	pCi/g
BW35-026	748429.5	2082074.9	1.0	3.0	Uranium-238	4.808		1.49	351	pCi/g
BW35-027	748470.51	2082103.6	0.5	1.0	Chromium	17		16.99	268	mg/kg
BW35-027	748470.51	2082103.6	0.5	1.0	Copper	39		18.06	40900	mg/kg
BW35-027	748470.51	2082103.6	0.5	1.0	Tin	3.3		2.9	613000	mg/kg
BW35-027	748470.51	2082103.6	0.5	1.0	Uranium-234	4.437		2.253	300	pCi/g
BW35-027	748470.51	2082103.6	0.5	1.0	Uranium-238	4.437		2	351	pCi/g
BW35-027	748470.51	2082103.6	1.0	3.0	Arsenic	16		13.14	22.2	mg/kg
BW35-027	748470.51	2082103.6	1.0	3.0	Uranium-234	3.829		2.64	300	pCi/g

Location Code	Actual Northing	Actual Easting	Start Depth (ft)	End Depth (ft)	Analyte	Result	Detection Limit	Background Mean+2SD	WRW AL	Unit
BW35-027	748470.51	2082103.6	1.0	3.0	Uranium-235	0.232		0.120	8	pCi/g
BW35-027	748470.51	2082103.6	1.0	3.0	Uranium-238	3.829		1.49	351	pCi/g
BW35-028	748490.52	2082134.47	0.0	0.5	Copper	39		38.21	40900	mg/kg
BW35-028	748490.52	2082134.47	0.0	0.5	Uranium-234	4.496		2.64	300	pCi/g
BW35-028	748490.52	2082134.47	0.0	0.5	Uranium-235	0.1864		0.120	8	pCi/g
BW35-028	748490.52	2082134.47	0.0	0.5	Uranium-238	4.496		1.49	351	pCi/g
BW35-028	748490.52	2082134.47	0.5	2.5	Uranium-234	4.269		2.64	300	pCi/g
BW35-028	748490.52	2082134.47	0.5	2.5	Uranium-235	0.2055		0.120	8	pCi/g
BW35-028	748490.52	2082134.47	0.5	2.5	Uranium-238	4.269		1.49	351	pCi/g
BW35-029	748378.69	2082068.84	0.5	1.0	Zinc	78		73.76	307000	mg/kg
BW35-029	748378.69	2082068.84	1.0	3.0	Aluminum	38000		35373.17	228000	mg/kg
BW35-029	748378.69	2082068.84	1.0	3.0	Arsenic	18		13.14	22.2	mg/kg
BW35-029	748378.69	2082068.84	1.0	3.0	Uranium-235	0.2434		0.120	8	pCi/g
BW35-029	748378.69	2082068.84	1.0	3.0	Uranium-238	2.309		1.49	351	pCi/g
BW35-030	748404.19	2082104.21	0.0	0.5	Uranium-234	2.473		2.253	300	pCi/g
BW35-030	748404.19	2082104.21	0.0	0.5	Uranium-238	2.473		2	351	pCi/g
BW35-030	748404.19	2082104.21	0.5	2.5	Uranium-235	0.1264		0.120	8	pCi/g
BW35-031	748427.58	2082122.48	0.5	2.5	Uranium-238	1.87		1.49	351	pCi/g
BW35-032	748370.38	2082106.91	0.0	0.5	Uranium-235	0.1137		0.0939	8	pCi/g
BW35-032	748370.38	2082106.91	0.5	2.5	Aluminum	42000		35373.17	228000	mg/kg
BW35-032	748370.38	2082106.91	0.5	2.5	Uranium-235	0.1615		0.120	8	pCi/g
BW35-033	748395.49	2082132.62	0.5	2.5	Tetrachloroethene	3	1.2		615000	ug/kg
BW35-033	748395.49	2082132.62	0.5	2.5	Toluene	0.94	0.92		31300000	ug/kg
BW35-034	748528.87	2082119.69	0.0	0.5	Uranium-238	1.535		1.49	351	pCi/g
BW35-034	748528.87	2082119.69	0.5	1.5	Uranium-238	1.662		1.49	351	pCi/g
BW35-035	748528.6	2082080.13	0.0	0.5	Uranium-235	0.1605		0.120	8	pCi/g
BW35-035	748528.6	2082080.13	0.0	0.5	Zinc	140		139.1	307000	mg/kg
BW35-035	748528.6	2082080.13	0.5	1.5	Naphthalene	7.35	6.26		3090000	ug/kg
BW35-035	748528.6	2082080.13	0.5	1.5	Uranium-235	0.1713		0.120	8	pCi/g
BW35-035	748528.6	2082080.13	0.5	1.5	Uranium-238	2.046		1.49	351	pCi/g
BW35-043	748496.64	2082489.23	0.0	0.5	Fluoranthene	53	24		27200000	ug/kg

Location Code	Actual Northing	Actual Easting	Start Depth (ft)	End Depth (ft)	Analyte	Result	Detection Limit	Background Mean+2SD	WRW AL	Unit
BW35-043	748496.64	2082489.23	0.0	0.5	Uranium-235	0.1256		0.0939	8	pCi/g
BW35-043	748496.64	2082489.23	0.5	2.5	Uranium-235	0.1626		0.120	8	pCi/g
BW35-043	748496.64	2082489.23	0.5	2.5	Uranium-238	1.663		1.49	351	pCi/g
BW36-018	748739.33	2082037.43	0.0	0.5	Aluminum	20000		16902	228000	mg/kg
BW36-018	748739.33	2082037.43	0.0	0.5	Beryllium	0.99		0.966	921	mg/kg
BW36-018	748739.33	2082037.43	0.0	0.5	Lithium	12		11.55	20400	mg/kg
BW36-018	748739.33	2082037.43	0.0	0.5	Uranium-234	4.489		2.253	300	pCi/g
BW36-018	748739.33	2082037.43	0.0	0.5	Uranium-235	0.2256		0.0939	8	pCi/g
BW36-018	748739.33	2082037.43	0.0	0.5	Uranium-238	4.489		2	351	pCi/g
BW36-018	748739.33	2082037.43	0.5	2.5	Uranium-234	4.413		2.64	300	pCi/g
BW36-018	748739.33	2082037.43	0.5	2.5	Uranium-235	0.2577		0.120	8	pCi/g
BW36-018	748739.33	2082037.43	0.5	2.5	Uranium-238	4.413		1.49	351	pCi/g
BW36-019	748605.85	2081934.62	0.0	0.5	Aluminum	19000		16902	228000	mg/kg
BW36-019	748605.85	2081934.62	0.0	0.5	Beryllium	1.2		0.966	921	mg/kg
BW36-019	748605.85	2081934.62	0.0	0.5	Uranium-235	0.1444		0.0939	8	pCi/g
BW36-019	748605.85	2081934.62	0.5	2.5	Uranium-238	1.571		1.49	351	pCi/g
BW36-019	748605.85	2081934.62	0.5	2.5	Vanadium	100		88.49	7150	mg/kg
BW36-020	748629.54	2081962.54	0.0	0.5	Chromium	20		16.99	268	mg/kg
BW36-020	748629.54	2081962.54	0.0	0.5	Uranium-234	4.405		2.253	300	pCi/g
BW36-020	748629.54	2081962.54	0.0	0.5	Uranium-235	0.2096		0.0939	8	pCi/g
BW36-020	748629.54	2081962.54	0.0	0.5	Uranium-238	4.405		2	351	pCi/g
BW36-021	748656.61	2081990.85	0.0	0.5	Strontium	59		48.94	613000	mg/kg
BW36-021	748656.61	2081990.85	0.0	0.5	Uranium-235	0.255		0.0939	8	pCi/g
BW36-021	748656.61	2081990.85	0.5	2.5	Manganese	930		901.62	3480	mg/kg
BW36-021	748656.61	2081990.85	0.5	2.5	Uranium-235	0.1554		0.120	8	pCi/g
BW36-021	748656.61	2081990.85	0.5	2.5	Uranium-238	1.839		1.49	351	pCi/g
BW36-022	748661.52	2082015.89	0.0	0.5	Uranium-234	3.886		2.253	300	pCi/g
BW36-022	748661.52	2082015.89	0.0	0.5	Uranium-235	0.228		0.0939	8	pCi/g
BW36-022	748661.52	2082015.89	0.0	0.5	Uranium-238	3.886		2	351	pCi/g
BW36-022	748661.52	2082015.89	0.5	2.5	Uranium-234	4.226		2.64	300	pCi/g
BW36-022	748661.52	2082015.89	0.5	2.5	Uranium-235	0.1933		0.120	8	pCi/g

Location Code	Actual Northing	Actual Easting	Start Depth (ft)	End Depth (ft)	Analyte	Result	Detection Limit	Background Mean+2SD	WRW AL	Unit
BW36-022	748661.52	2082015.89	0.5	2.5	Uranium-238	4.226		1.49	351	pCi/g
BW36-023	748707.31	2082041.06	0.0	0.5	Aluminum	27000		16902	228000	mg/kg
BW36-023	748707.31	2082041.06	0.0	0.5	Beryllium	1.3		0.966	921	mg/kg
BW36-023	748707.31	2082041.06	0.0	0.5	Cadmium	6.1		1.612	962	mg/kg
BW36-023	748707.31	2082041.06	0.0	0.5	Chromium	120		16.99	268	mg/kg
BW36-023	748707.31	2082041.06	0.0	0.5	Copper	40		18.06	40900	mg/kg
BW36-023	748707.31	2082041.06	0.0	0.5	Iron	23000		18037	307000	mg/kg
BW36-023	748707.31	2082041.06	0.0	0.5	Lithium	16		11.55	20400	mg/kg
BW36-023	748707.31	2082041.06	0.0	0.5	Nickel	19		14.91	20400	mg/kg
BW36-023	748707.31	2082041.06	0.5	2.5	Uranium-235	0.1371		0.120	8	pCi/g
BW36-024	748733.08	2082065.97	0.0	0.5	Strontium	53		48.94	613000	mg/kg
BW36-024	748733.08	2082065.97	0.0	0.5	Uranium-234	4.709		2.253	300	pCi/g
BW36-024	748733.08	2082065.97	0.0	0.5	Uranium-235	0.2468		0.0939	8	pCi/g
BW36-024	748733.08	2082065.97	0.0	0.5	Uranium-238	4.709		2	351	pCi/g
BW36-024	748733.08	2082065.97	0.5	2.5	Aluminum	40000		35373.17	228000	mg/kg
BW36-024	748733.08	2082065.97	0.5	2.5	Uranium-238	1.493		1.49	351	pCi/g
BW36-025	748758.98	2082090.99	0.0	0.5	Aluminum	24000		16902	228000	mg/kg
BW36-025	748758.98	2082090.99	0.0	0.5	Chromium	34		16.99	268	mg/kg
BW36-025	748758.98	2082090.99	0.0	0.5	Lithium	12		11.55	20400	mg/kg
BW36-025	748758.98	2082090.99	0.0	0.5	Mercury	0.15		0.134	25200	mg/kg
BW36-025	748758.98	2082090.99	0.0	0.5	Uranium-234	5.278		2.253	300	pCi/g
BW36-025	748758.98	2082090.99	0.0	0.5	Uranium-235	0.2769		0.0939	8	pCi/g
BW36-025	748758.98	2082090.99	0.0	0.5	Uranium-238	5.278		2	351	pCi/g
BW36-025	748758.98	2082090.99	0.5	2.5	Uranium-234	2.816		2.64	300	pCi/g
BW36-025	748758.98	2082090.99	0.5	2.5	Uranium-235	0.2121		0.120	8	pCi/g
BW36-025	748758.98	2082090.99	0.5	2.5	Uranium-238	2.816		1.49	351	pCi/g
BW36-026	748558.5	2081935.63	0.0	0.5	Aluminum	26000		16902	228000	mg/kg
BW36-026	748558.5	2081935.63	0.0	0.5	Americium-241	0.0852		0.0227	76	pCi/g
BW36-026	748558.5	2081935.63	0.0	0.5	Antimony	0.48		0.470	409	mg/kg
BW36-026	748558.5	2081935.63	0.0	0.5	Beryllium	1.4		0.966	921	mg/kg
BW36-026	748558.5	2081935.63	0.0	0.5	Chromium	24		16.99	268	mg/kg

Location Code	Actual Northing	Actual Easting	Start Depth (ft)	End Depth (ft)	Analyte	Result	Detection Limit	Background Mean+2SD	WRW AL	Unit
BW36-026	748558.5	2081935.63	0.5	2.5	Americium-241	0.199		0.0200	76	pCi/g
BW36-027	748595.34	2081975.46	0.0	0.5	Uranium-235	0.1979		0.0939	8	pCi/g
BW36-027	748595.34	2081975.46	0.5	2.5	Uranium-234	3.051		2.64	300	pCi/g
BW36-027	748595.34	2081975.46	0.5	2.5	Uranium-235	0.1664		0.120	8	pCi/g
BW36-027	748595.34	2081975.46	0.5	2.5	Uranium-238	3.051		1.49	351	pCi/g
BW36-028	748621.23	2082000.45	0.0	0.5	Uranium-234	5.104		2.253	300	pCi/g
BW36-028	748621.23	2082000.45	0.0	0.5	Uranium-235	0.1994		0.0939	8	pCi/g
BW36-028	748621.23	2082000.45	0.0	0.5	Uranium-238	5.104		2	351	pCi/g
BW36-029	748646.9	2082025.73	0.5	2.5	Uranium-235	0.1644		0.120	8	pCi/g
BW36-029	748646.9	2082025.73	0.5	2.5	Uranium-238	1.656		1.49	351	pCi/g
BW36-030	748672.74	2082051.02	0.0	0.5	Aluminum	22000		16902	228000	mg/kg
BW36-030	748672.74	2082051.02	0.0	0.5	Chromium	17		16.99	268	mg/kg
BW36-030	748672.74	2082051.02	0.0	0.5	Iron	19000		18037	307000	mg/kg
BW36-030	748672.74	2082051.02	0.0	0.5	Lithium	13		11.55	20400	mg/kg
BW36-030	748672.74	2082051.02	0.0	0.5	Uranium-234	5.104		2.253	300	pCi/g
BW36-030	748672.74	2082051.02	0.0	0.5	Uranium-235	0.2239		0.0939	8	pCi/g
BW36-030	748672.74	2082051.02	0.0	0.5	Uranium-238	5.104		2	351	pCi/g
BW36-030	748672.74	2082051.02	0.5	2.5	Uranium-234	3.582		2.64	300	pCi/g
BW36-030	748672.74	2082051.02	0.5	2.5	Uranium-235	0.2565		0.120	8	pCi/g
BW36-030	748672.74	2082051.02	0.5	2.5	Uranium-238	3.582		1.49	351	pCi/g
BW36-031	748698.53	2082076.03	0.0	0.5	Aluminum	20000		16902	228000	mg/kg
BW36-031	748698.53	2082076.03	0.0	0.5	Americium-241	1.27		0.0227	76	pCi/g
BW36-031	748698.53	2082076.03	0.0	0.5	Antimony	0.6		0.470	409	mg/kg
BW36-031	748698.53	2082076.03	0.0	0.5	Nickel	17		14.91	20400	mg/kg
BW36-031	748698.53	2082076.03	0.0	0.5	Plutonium-239/240	0.301		0.0660	50	pCi/g
BW36-031	748698.53	2082076.03	0.5	2.5	Americium-241	0.725		0.0200	76	pCi/g
BW36-031	748698.53	2082076.03	0.5	2.5	Methylene chloride	0.92	0.86		2530000	ug/kg
BW36-031	748698.53	2082076.03	0.5	2.5	Naphthalene	1.2	0.92		3090000	ug/kg
BW36-031	748698.53	2082076.03	0.5	2.5	Plutonium-239/240	0.28		0.0200	50	pCi/g
BW36-031	748698.53	2082076.03	0.5	2.5	Xylene	3.3	3		2040000	ug/kg
BW36-032	748724.26	2082100.98	0.0	0.5	Aluminum	35000		16902	228000	mg/kg

Location Code	Actual Northing	Actual Easting	Start Depth (ft)	End Depth (ft)	Analyte	Result	Detection Limit	Background Mean+2SD	WRW AL	Unit
BW36-032	748724.26	2082100.98	0.0	0.5	Beryllium	1.2		0.966	921	mg/kg
BW36-032	748724.26	2082100.98	0.0	0.5	Chromium	23		16.99	268	mg/kg
BW36-032	748724.26	2082100.98	0.0	0.5	Lithium	14		11.55	20400	mg/kg
BW36-032	748724.26	2082100.98	0.0	0.5	Mercury	0.14		0.134	25200	mg/kg
BW36-032	748724.26	2082100.98	0.0	0.5	Nickel	16		14.91	20400	mg/kg
BW36-032	748724.26	2082100.98	0.0	0.5	Uranium-234	2.895		2.253	300	pCi/g
BW36-032	748724.26	2082100.98	0.0	0.5	Uranium-235	0.1905		0.0939	8	pCi/g
BW36-032	748724.26	2082100.98	0.0	0.5	Uranium-238	2.895		2	351	pCi/g
BW36-032	748724.26	2082100.98	0.5	2.5	Uranium-234	3.081		2.64	300	pCi/g
BW36-032	748724.26	2082100.98	0.5	2.5	Uranium-235	0.2034		0.120	8	pCi/g
BW36-032	748724.26	2082100.98	0.5	2.5	Uranium-238	3.081		1.49	351	pCi/g
BW36-033	748750.02	2082125.92	0.0	0.5	Aluminum	20000		16902	228000	mg/kg
BW36-033	748750.02	2082125.92	0.0	0.5	Chromium	74		16.99	268	mg/kg
BW36-033	748750.02	2082125.92	0.0	0.5	Lithium	13		11.55	20400	mg/kg
BW36-033	748750.02	2082125.92	0.0	0.5	Nickel	68		14.91	20400	mg/kg
BW36-033	748750.02	2082125.92	0.5	2.5	Aluminum	38000		35373.17	228000	mg/kg
BW36-033	748750.02	2082125.92	0.5	2.5	Uranium-238	1.813		1.49	351	pCi/g
BW36-034	748586.54	2082010.34	0.0	0.5	Chromium	52		16.99	268	mg/kg
BW36-034	748586.54	2082010.34	0.0	0.5	Copper	47		18.06	40900	mg/kg
BW36-034	748586.54	2082010.34	0.0	0.5	Strontium	190		48.94	613000	mg/kg
BW36-034	748586.54	2082010.34	0.0	0.5	Uranium-234	3.777		2.253	300	pCi/g
BW36-034	748586.54	2082010.34	0.0	0.5	Uranium-235	0.2219		0.0939	8	pCi/g
BW36-034	748586.54	2082010.34	0.0	0.5	Uranium-238	3.777		2	351	pCi/g
BW36-034	748586.54	2082010.34	0.0	0.5	Zinc	190		73.76	307000	mg/kg
BW36-034	748586.54	2082010.34	0.5	2.5	Copper	40		38.21	40900	mg/kg
BW36-034	748586.54	2082010.34	0.5	2.5	Naphthalene	7.83	5.82		3090000	ug/kg
BW36-034	748586.54	2082010.34	0.5	2.5	Uranium-234	5.384		2.64	300	pCi/g
BW36-034	748586.54	2082010.34	0.5	2.5	Uranium-235	0.2645		0.120	8	pCi/g
BW36-034	748586.54	2082010.34	0.5	2.5	Uranium-238	5.384		1.49	351	pCi/g
BW36-034	748586.54	2082010.34	0.5	2.5	Zinc	300		139.1	307000	mg/kg
BW36-035	748612.22	2082035.42	0.0	0.5	Plutonium-239/240	0.552		0.0660	50	pCi/g

Location Code	Actual Northing	Actual Easting	Start Depth (ft)	End Depth (ft)	Analyte	Result	Detection Limit	Background Mean+2SD	WRW AL	Unit
BW36-035	748612.22	2082035.42	0.0	0.5	Uranium-234	2.57		2.253	300	pCi/g
BW36-035	748612.22	2082035.42	0.5	2.5	2-Butanone	6.5	5.4		192000000	ug/kg
BW36-035	748612.22	2082035.42	0.5	2.5	Acetone	49	5.3		102000000	ug/kg
BW36-035	748612.22	2082035.42	0.5	2.5	Naphthalene	1.3	0.99		3090000	ug/kg
BW36-035	748612.22	2082035.42	0.5	2.5	Tetrachloroethene	1.7	1.1		615000	ug/kg
BW36-036	748637.71	2082066.02	0.0	0.5	Aluminum	23000		16902	228000	mg/kg
BW36-036	748637.71	2082066.02	0.0	0.5	Beryllium	1.2		0.966	921	mg/kg
BW36-036	748637.71	2082066.02	0.0	0.5	Chromium	18		16.99	268	mg/kg
BW36-036	748637.71	2082066.02	0.0	0.5	Lithium	12		11.55	20400	mg/kg
BW36-036	748637.71	2082066.02	0.0	0.5	Uranium-235	0.1601		0.0939	8	pCi/g
BW36-036	748637.71	2082066.02	0.5	2.5	Uranium-238	1.803		1.49	351	pCi/g
BW36-037	748663.79	2082085.98	0.0	0.5	Copper	29		18.06	40900	mg/kg
BW36-037	748663.79	2082085.98	0.0	0.5	Zinc	160		73.76	307000	mg/kg
BW36-037	748663.79	2082085.98	0.5	1.0	Aluminum	40000		35373.17	228000	mg/kg
BW36-037	748663.79	2082085.98	0.5	1.0	Arsenic	15		13.14	22.2	mg/kg
BW36-037	748663.79	2082085.98	0.5	1.0	Tetrachloroethene	12	1.2		615000	ug/kg
BW36-037	748663.79	2082085.98	0.5	1.0	Trichloroethene	2.3	1		19600	ug/kg
BW36-037	748663.79	2082085.98	0.5	1.0	Uranium-235	0.141		0.120	8	pCi/g
BW36-038	748689.63	2082110.95	0.0	0.5	Aluminum	45000		16902	228000	mg/kg
BW36-038	748689.63	2082110.95	0.0	0.5	Beryllium	1.9		0.966	921	mg/kg
BW36-038	748689.63	2082110.95	0.0	0.5	Chromium	33		16.99	268	mg/kg
BW36-038	748689.63	2082110.95	0.0	0.5	Iron	22000		18037	307000	mg/kg
BW36-038	748689.63	2082110.95	0.0	0.5	Lithium	23		11.55	20400	mg/kg
BW36-038	748689.63	2082110.95	0.0	0.5	Mercury	0.21		0.134	25200	mg/kg
BW36-038	748689.63	2082110.95	0.0	0.5	Nickel	27		14.91	20400	mg/kg
BW36-038	748689.63	2082110.95	0.0	0.5	Uranium-234	4.178		2.253	300	pCi/g
BW36-038	748689.63	2082110.95	0.0	0.5	Uranium-238	4.178		2	351	pCi/g
BW36-038	748689.63	2082110.95	0.0	0.5	Vanadium	61		45.59	7150	mg/kg
BW36-038	748689.63	2082110.95	0.5	2.5	Uranium-234	5.122		2.64	300	pCi/g
BW36-038	748689.63	2082110.95	0.5	2.5	Uranium-235	0.2126		0.120	8	pCi/g
BW36-038	748689.63	2082110.95	0.5	2.5	Uranium-238	5.122		1.49	351	pCi/g

Location Code	Actual Northing	Actual Easting	Start Depth (ft)	End Depth (ft)	Analyte	Result	Detection Limit	Background Mean+2SD	WRW AL	Unit
BW36-039	748715.26	2082136.02	0.0	0.5	Aluminum	23000		16902	228000	mg/kg
BW36-039	748715.26	2082136.02	0.0	0.5	Chromium	22		16.99	268	mg/kg
BW36-039	748715.26	2082136.02	0.0	0.5	Lead	300		54.62	1000	mg/kg
BW36-039	748715.26	2082136.02	0.0	0.5	Lithium	16		11.55	20400	mg/kg
BW36-039	748715.26	2082136.02	0.0	0.5	Nickel	20		14.91	20400	mg/kg
BW36-039	748715.26	2082136.02	0.0	0.5	Uranium-235	0.1179		0.0939	8	pCi/g
BW36-039	748715.26	2082136.02	0.0	0.5	Vanadium	47		45.59	7150	mg/kg
BW36-039	748715.26	2082136.02	0.0	0.5	Zinc	190		73.76	307000	mg/kg
BW36-039	748715.26	2082136.02	0.5	2.5	Xylene	22.1	12		2040000	ug/kg
BW37-003	748954.21	2081938	0.0	0.5	Uranium-235	0.1164		0.0939	8	pCi/g
BW37-003	748954.21	2081938	0.5	2.5	Toluene	6.46	5.47		31300000	ug/kg
BW37-003	748954.21	2081938	0.5	2.5	Uranium-235	0.1819		0.120	8	pCi/g
BW37-003	748954.21	2081938	0.5	2.5	Uranium-238	1.635		1.49	351	pCi/g
BW37-004	748927.97	2081962.45	0.0	0.5	Uranium-235	0.1487		0.0939	8	pCi/g
BW37-005	748943.93	2081984.43	0.0	0.5	Copper	19		18.06	40900	mg/kg
BW37-005	748943.93	2081984.43	0.5	2.5	Naphthalene	1.2	0.92		3090000	ug/kg
BW37-006	748915.28	2081982.6	0.0	0.5	Uranium-234	3.356		2.253	300	pCi/g
BW37-006	748915.28	2081982.6	0.0	0.5	Uranium-235	0.2493		0.0939	8	pCi/g
BW37-006	748915.28	2081982.6	0.0	0.5	Uranium-238	3.356		2	351	pCi/g
BW37-007	748941.02	2082007.82	0.0	0.5	Barium	150		141.26	26400	mg/kg
BW37-007	748941.02	2082007.82	0.0	0.5	Cobalt	18		10.91	1550	mg/kg
BW37-007	748941.02	2082007.82	0.0	0.5	Copper	22		18.06	40900	mg/kg
BW37-007	748941.02	2082007.82	0.0	0.5	Iron	22000		18037	307000	mg/kg
BW37-007	748941.02	2082007.82	0.0	0.5	Manganese	510		365.08	3480	mg/kg
BW37-007	748941.02	2082007.82	0.0	0.5	Nickel	24		14.91	20400	mg/kg
BW37-007	748941.02	2082007.82	0.0	0.5	Uranium-234	2.502		2.253	300	pCi/g
BW37-007	748941.02	2082007.82	0.0	0.5	Uranium-238	2.502		2	351	pCi/g
BW37-007	748941.02	2082007.82	0.0	0.5	Zinc	81		73.76	307000	mg/kg
BW37-007	748941.02	2082007.82	0.5	2.5	Uranium-234	3.799		2.64	300	pCi/g
BW37-007	748941.02	2082007.82	0.5	2.5	Uranium-238	3.799		1.49	351	pCi/g
BW37-008	748916.28	2082017.41	0.0	0.5	Uranium-235	0.1734		0.0939	8	pCi/g

Location Code	Actual Northing	Actual Easting	Start Depth (ft)	End Depth (ft)	Analyte	Result	Detection Limit	Background Mean+2SD	WRW AL	Unit
BW37-008	748916.28	2082017.41	0.5	2.5	Aluminum	38000		35373.17	228000	mg/kg
BW37-008	748916.28	2082017.41	0.5	2.5	Uranium-234	3.468		2.64	300	pCi/g
BW37-008	748916.28	2082017.41	0.5	2.5	Uranium-235	0.2165		0.120	8	pCi/g
BW37-008	748916.28	2082017.41	0.5	2.5	Uranium-238	3.468		1.49	351	pCi/g
BW37-009	748932.19	2082042.7	0.0	0.5	Uranium-234	3.769		2.253	300	pCi/g
BW37-009	748932.19	2082042.7	0.0	0.5	Uranium-235	0.1592		0.0939	8	pCi/g
BW37-009	748932.19	2082042.7	0.0	0.5	Uranium-238	3.769		2	351	pCi/g
BW37-009	748932.19	2082042.7	0.5	2.5	Uranium-238	1.67		1.49	351	pCi/g
BW37-010	748957.94	2082067.73	0.0	0.5	Aluminum	18000		16902	228000	mg/kg
BW37-010	748957.94	2082067.73	0.0	0.5	Uranium-235	0.1098		0.0939	8	pCi/g
BW37-010	748957.94	2082067.73	0.5	2.5	Uranium-235	0.1947		0.120	8	pCi/g
BW37-010	748957.94	2082067.73	0.5	2.5	Uranium-238	1.842		1.49	351	pCi/g
BW37-011	748871.65	2082020.58	0.3	0.8	Aluminum	20000		16902	228000	mg/kg
BW37-011	748871.65	2082020.58	0.3	0.8	Beryllium	1.1		0.966	921	mg/kg
BW37-011	748871.65	2082020.58	0.3	0.8	Chromium	18		16.99	268	mg/kg
BW37-011	748871.65	2082020.58	0.3	0.8	Nickel	16		14.91	20400	mg/kg
BW37-011	748871.65	2082020.58	0.8	2.8	Uranium-234	3.025		2.64	300	pCi/g
BW37-011	748871.65	2082020.58	0.8	2.8	Uranium-235	0.1507		0.120	8	pCi/g
BW37-011	748871.65	2082020.58	0.8	2.8	Uranium-238	3.025		1.49	351	pCi/g
BW37-012	748894.91	2082053.04	0.0	0.5	Benzo(a)pyrene	47	42		3490	ug/kg
BW37-012	748894.91	2082053.04	0.0	0.5	Benzo(b)fluoranthene	39	30		34900	ug/kg
BW37-012	748894.91	2082053.04	0.0	0.5	Chrysene	43	29		3490000	ug/kg
BW37-012	748894.91	2082053.04	0.5	2.5	Acetone	37	5.2		102000000	ug/kg
BW37-012	748894.91	2082053.04	0.5	2.5	Isophorone	840	37		29100000	ug/kg
BW37-012	748894.91	2082053.04	0.5	2.5	Tetrachloroethene	1.3	1.1		615000	ug/kg
BW37-013	748923.17	2082077.48	0.0	0.5	Antimony	0.55		0.470	409	mg/kg
BW37-013	748923.17	2082077.48	0.0	0.5	Chromium	17		16.99	268	mg/kg
BW37-013	748923.17	2082077.48	0.0	0.5	Di-n-octylphthalate	280	55		14700000	ug/kg
BW37-013	748923.17	2082077.48	0.0	0.5	Uranium-234	2.3		2.253	300	pCi/g
BW37-013	748923.17	2082077.48	0.0	0.5	Uranium-238	2.3		2	351	pCi/g
BW37-014	748949.03	2082102.63	0.0	0.5	Aluminum	18000		16902	228000	mg/kg

Location Code	Actual Northing	Actual Easting	Start Depth (ft)	End Depth (ft)	Analyte	Result	Detection Limit	Background Mean+2SD	WRW AL	Unit
BW37-014	748949.03	2082102.63	0.0	0.5	Beryllium	0.98		0.966	921	mg/kg
BW37-014	748949.03	2082102.63	0.5	2.5	Uranium-234	4.318		2.64	300	pCi/g
BW37-014	748949.03	2082102.63	0.5	2.5	Uranium-235	0.1648		0.120	8	pCi/g
BW37-014	748949.03	2082102.63	0.5	2.5	Uranium-238	4.318		1.49	351	pCi/g
BW37-015	748836.77	2082039.96	0.5	2.5	Acetone	15	5.3		102000000	ug/kg
BW37-015	748836.77	2082039.96	0.5	2.5	Naphthalene	1.2	0.99		3090000	ug/kg
BW37-015	748836.77	2082039.96	0.5	2.5	Tetrachloroethene	1.9	1.1		615000	ug/kg
BW37-016	748866.42	2082055.83	0.0	0.5	Uranium-234	3.49		2.64	300	pCi/g
BW37-016	748866.42	2082055.83	0.0	0.5	Uranium-235	0.1745		0.120	8	pCi/g
BW37-016	748866.42	2082055.83	0.0	0.5	Uranium-238	3.49		1.49	351	pCi/g
BW37-016	748866.42	2082055.83	0.5	2.5	Uranium-234	4.388		2.64	300	pCi/g
BW37-016	748866.42	2082055.83	0.5	2.5	Uranium-235	0.1797		0.120	8	pCi/g
BW37-016	748866.42	2082055.83	0.5	2.5	Uranium-238	4.388		1.49	351	pCi/g
BW37-017	748914.32	2082112.45	0.0	0.5	Aroclor-1254	27	4.6		12400	ug/kg
BW37-017	748914.32	2082112.45	0.0	0.5	Uranium-234	3.392		2.64	300	pCi/g
BW37-017	748914.32	2082112.45	0.0	0.5	Uranium-235	0.2451		0.120	8	pCi/g
BW37-017	748914.32	2082112.45	0.0	0.5	Uranium-238	3.392		1.49	351	pCi/g
BW37-017	748914.32	2082112.45	0.5	2.5	Aroclor-1254	7.3	4.8		12400	ug/kg
BW37-017	748914.32	2082112.45	0.5	2.5	Uranium-234	3.759		2.64	300	pCi/g
BW37-017	748914.32	2082112.45	0.5	2.5	Uranium-235	0.193		0.120	8	pCi/g
BW37-017	748914.32	2082112.45	0.5	2.5	Uranium-238	3.759		1.49	351	pCi/g
BW37-018	748774.19	2082019.44	0.5	2.5	Uranium-234	4.599		2.64	300	pCi/g
BW37-018	748774.19	2082019.44	0.5	2.5	Uranium-235	0.2164		0.120	8	pCi/g
BW37-018	748774.19	2082019.44	0.5	2.5	Uranium-238	4.599		1.49	351	pCi/g
BW37-019	748802.4	2082046.68	0.0	0.5	Mercury	0.17		0.134	25200	mg/kg
BW37-019	748802.4	2082046.68	0.0	0.5	Uranium-234	5.205		2.253	300	pCi/g
BW37-019	748802.4	2082046.68	0.0	0.5	Uranium-235	0.2506		0.0939	8	pCi/g
BW37-019	748802.4	2082046.68	0.0	0.5	Uranium-238	5.205		2	351	pCi/g
BW37-019	748802.4	2082046.68	0.5	2.5	Uranium-234	4.163		2.64	300	pCi/g
BW37-019	748802.4	2082046.68	0.5	2.5	Uranium-235	0.1704		0.120	8	pCi/g
BW37-019	748802.4	2082046.68	0.5	2.5	Uranium-238	4.163		1.49	351	pCi/g

Location Code	Actual Northing	Actual Easting	Start Depth (ft)	End Depth (ft)	Analyte	Result	Detection Limit	Background Mean+2SD	WRW AL	Unit
BW37-020	748827.94	2082052.01	0.0	0.5	Aluminum	34000		16902	228000	mg/kg
BW37-020	748827.94	2082052.01	0.0	0.5	Beryllium	1.8		0.966	921	mg/kg
BW37-020	748827.94	2082052.01	0.0	0.5	Chromium	29		16.99	268	mg/kg
BW37-020	748827.94	2082052.01	0.0	0.5	Iron	19000		18037	307000	mg/kg
BW37-020	748827.94	2082052.01	0.0	0.5	Lithium	18		11.55	20400	mg/kg
BW37-020	748827.94	2082052.01	0.0	0.5	Mercury	0.33		0.134	25200	mg/kg
BW37-020	748827.94	2082052.01	0.0	0.5	Nickel	26		14.91	20400	mg/kg
BW37-020	748827.94	2082052.01	0.0	0.5	Uranium-235	0.1459		0.0939	8	pCi/g
BW37-020	748827.94	2082052.01	0.0	0.5	Vanadium	57		45.59	7150	mg/kg
BW37-021	748767.74	2082055.98	0.0	0.5	Strontium	190		48.94	613000	mg/kg
BW37-021	748767.74	2082055.98	0.0	0.5	Uranium-234	5.293		2.253	300	pCi/g
BW37-021	748767.74	2082055.98	0.0	0.5	Uranium-235	0.2483		0.0939	8	pCi/g
BW37-021	748767.74	2082055.98	0.0	0.5	Uranium-238	5.293		2	351	pCi/g
BW37-021	748767.74	2082055.98	0.5	2.5	Uranium-235	0.144		0.120	8	pCi/g
BX35-005	748444.85	2082144.47	0.0	0.5	Uranium-235	0.1059		0.0939	8	pCi/g
BX35-006	748473.57	2082169.79	0.0	0.5	Uranium-234	3.113		2.253	300	pCi/g
BX35-006	748473.57	2082169.79	0.0	0.5	Uranium-235	0.2297		0.0939	8	pCi/g
BX35-006	748473.57	2082169.79	0.0	0.5	Uranium-238	3.113		2	351	pCi/g
BX35-006	748473.57	2082169.79	0.5	1.5	Chromium	120		68.27	268	mg/kg
BX35-006	748473.57	2082169.79	0.5	1.5	Nickel	67		62.21	20400	mg/kg
BX35-006	748473.57	2082169.79	0.5	1.5	Uranium-234	4.7		2.64	300	pCi/g
BX35-006	748473.57	2082169.79	0.5	1.5	Uranium-235	0.2972		0.120	8	pCi/g
BX35-006	748473.57	2082169.79	0.5	1.5	Uranium-238	4.7		1.49	351	pCi/g
BX35-007	748507.35	2082194.33	0.0	0.5	Uranium-234	4.763		2.253	300	pCi/g
BX35-007	748507.35	2082194.33	0.0	0.5	Uranium-238	4.763		2	351	pCi/g
BX35-008	748416.91	2082153.8	0.0	0.5	Copper	33		18.06	40900	mg/kg
BX35-008	748416.91	2082153.8	0.0	0.5	Iron	20000		18037	307000	mg/kg
BX35-008	748416.91	2082153.8	0.0	0.5	Uranium-235	0.1769		0.0939	8	pCi/g
BX35-008	748416.91	2082153.8	0.0	0.5	Vanadium	52		45.59	7150	mg/kg
BX35-008	748416.91	2082153.8	0.5	2.5	Uranium-235	0.1979		0.120	8	pCi/g
BX35-009	748443.65	2082173.62	0.0	0.5	Uranium-235	0.2393		0.0939	8	pCi/g

Location Code	Actual Northing	Actual Easting	Start Depth (ft)	End Depth (ft)	Analyte	Result	Detection Limit	Background Mean+2SD	WRW AL	Unit
BX35-010	748472.71	2082204.1	0.0	0.5	Uranium-234	3.146		2.253	300	pCi/g
BX35-010	748472.71	2082204.1	0.0	0.5	Uranium-238	3.146		2	351	pCi/g
BX35-010	748472.71	2082204.1	0.5	2.1	Uranium-234	3.361		2.64	300	pCi/g
BX35-010	748472.71	2082204.1	0.5	2.1	Uranium-235	0.2354		0.120	8	pCi/g
BX35-010	748472.71	2082204.1	0.5	2.1	Uranium-238	3.361		1.49	351	pCi/g
BX35-011	748498.53	2082229.29	0.0	0.5	Aluminum	27000		16902	228000	mg/kg
BX35-011	748498.53	2082229.29	0.0	0.5	Beryllium	1.3		0.966	921	mg/kg
BX35-011	748498.53	2082229.29	0.0	0.5	Chromium	21		16.99	268	mg/kg
BX35-011	748498.53	2082229.29	0.0	0.5	Lithium	12		11.55	20400	mg/kg
BX35-011	748498.53	2082229.29	0.5	2.5	Tetrachloroethene	1.6	1.1		615000	ug/kg
BX35-012	748524.24	2082254.37	0.0	0.5	Uranium-238	1.707		1.49	351	pCi/g
BX35-013	748549.95	2082279.61	0.0	0.5	Copper	24		18.06	40900	mg/kg
BX35-013	748549.95	2082279.61	0.0	0.5	Uranium-235	0.1983		0.0939	8	pCi/g
BX35-013	748549.95	2082279.61	0.0	0.5	Uranium-238	2.217		2	351	pCi/g
BX35-013	748549.95	2082279.61	0.0	0.5	Zinc	93		73.76	307000	mg/kg
BX35-013	748549.95	2082279.61	0.5	1.3	Naphthalene	27.1	5.46		3090000	ug/kg
BX35-013	748549.95	2082279.61	0.5	1.3	Uranium-235	0.175		0.120	8	pCi/g
BX35-013	748549.95	2082279.61	0.5	1.3	Uranium-238	2.034		1.49	351	pCi/g
BX35-014	748386.54	2082163.59	0.0	0.5	Aluminum	18000		16902	228000	mg/kg
BX35-014	748386.54	2082163.59	0.0	0.5	Arsenic	11		10.09	22.2	mg/kg
BX35-014	748386.54	2082163.59	0.0	0.5	Beryllium	1.3		0.966	921	mg/kg
BX35-014	748386.54	2082163.59	0.0	0.5	Chromium	18		16.99	268	mg/kg
BX35-014	748386.54	2082163.59	0.0	0.5	Cobalt	12		10.91	1550	mg/kg
BX35-014	748386.54	2082163.59	0.0	0.5	Lithium	12		11.55	20400	mg/kg
BX35-014	748386.54	2082163.59	0.0	0.5	Nickel	18		14.91	20400	mg/kg
BX35-014	748386.54	2082163.59	0.0	0.5	Uranium-234	5.105		2.253	300	pCi/g
BX35-014	748386.54	2082163.59	0.0	0.5	Uranium-235	0.2004		0.0939	8	pCi/g
BX35-014	748386.54	2082163.59	0.0	0.5	Uranium-238	5.105		2	351	pCi/g
BX35-014	748386.54	2082163.59	0.0	0.5	Vanadium	48		45.59	7150	mg/kg
BX35-014	748386.54	2082163.59	0.5	2.5	Uranium-234	4.15		2.64	300	pCi/g
BX35-014	748386.54	2082163.59	0.5	2.5	Uranium-235	0.2294		0.120	8	pCi/g

Location Code	Actual Northing	Actual Easting	Start Depth (ft)	End Depth (ft)	Analyte	Result	Detection Limit	Background Mean+2SD	WRW AL	Unit
BX35-014	748386.54	2082163.59	0.5	2.5	Uranium-238	4.15		1.49	351	pCi/g
BX35-015	748402.94	2082179.58	0.0	0.5	Uranium-234	4.431		2.253	300	pCi/g
BX35-015	748402.94	2082179.58	0.0	0.5	Uranium-235	0.2283		0.0939	8	pCi/g
BX35-015	748402.94	2082179.58	0.0	0.5	Uranium-238	4.431		2	351	pCi/g
BX35-015	748402.94	2082179.58	0.5	2.5	Uranium-234	4.385		2.64	300	pCi/g
BX35-015	748402.94	2082179.58	0.5	2.5	Uranium-235	0.2627		0.120	8	pCi/g
BX35-015	748402.94	2082179.58	0.5	2.5	Uranium-238	4.385		1.49	351	pCi/g
BX35-016	748435.53	2082214.19	0.0	0.5	Uranium-235	0.1249		0.120	8	pCi/g
BX35-016	748435.53	2082214.19	0.0	0.5	Uranium-238	1.642		1.49	351	pCi/g
BX35-016	748435.53	2082214.19	0.5	2.5	Uranium-234	4.744		2.64	300	pCi/g
BX35-016	748435.53	2082214.19	0.5	2.5	Uranium-235	0.2144		0.120	8	pCi/g
BX35-016	748435.53	2082214.19	0.5	2.5	Uranium-238	4.744		1.49	351	pCi/g
BX35-017	748463.85	2082239.04	0.0	0.5	Uranium-234	4.026		2.253	300	pCi/g
BX35-017	748463.85	2082239.04	0.0	0.5	Uranium-235	0.2464		0.0939	8	pCi/g
BX35-017	748463.85	2082239.04	0.0	0.5	Uranium-238	4.026		2	351	pCi/g
BX35-017	748463.85	2082239.04	0.5	2.5	Uranium-234	4.447		2.64	300	pCi/g
BX35-017	748463.85	2082239.04	0.5	2.5	Uranium-238	4.447		1.49	351	pCi/g
BX35-018	748489.57	2082263.99	0.0	0.5	Antimony	0.48		0.470	409	mg/kg
BX35-018	748489.57	2082263.99	0.0	0.5	Endosulfan sulfate	5.5	1.6		4420000	ug/kg
BX35-018	748489.57	2082263.99	0.0	0.5	Uranium-234	4.959		2.253	300	pCi/g
BX35-018	748489.57	2082263.99	0.0	0.5	Uranium-235	0.2291		0.0939	8	pCi/g
BX35-018	748489.57	2082263.99	0.0	0.5	Uranium-238	4.959		2	351	pCi/g
BX35-018	748489.57	2082263.99	0.0	0.5	Zinc	94		73.76	307000	mg/kg
BX35-018	748489.57	2082263.99	0.5	1.5	4,4'-DDE	0.46	0.32		101000	ug/kg
BX35-018	748489.57	2082263.99	0.5	1.5	Endosulfan sulfate	0.87	0.33		4420000	ug/kg
BX35-018	748489.57	2082263.99	0.5	1.5	Uranium-234	3.988		2.64	300	pCi/g
BX35-018	748489.57	2082263.99	0.5	1.5	Uranium-235	0.1926		0.120	8	pCi/g
BX35-018	748489.57	2082263.99	0.5	1.5	Uranium-238	3.988		1.49	351	pCi/g
BX35-019	748515.38	2082289.34	0.5	2.5	Acetone	31	5.2		102000000	ug/kg
BX35-019	748515.38	2082289.34	0.5	2.5	Naphthalene	3.8	0.97		3090000	ug/kg
BX35-019	748515.38	2082289.34	0.5	2.5	Silver	100		24.54	5110	mg/kg

Location Code	Actual Northing	Actual Easting	Start Depth (ft)	End Depth (ft)	Analyte	Result	Detection Limit	Background Mean+2SD	WRW AL	Unit
BX35-019	748515.38	2082289.34	0.5	2.5	Tetrachloroethene	3.6	1.1		615000	ug/kg
BX35-020	748382.08	2082199.32	0.0	0.5	Copper	19		18.06	40900	mg/kg
BX35-020	748382.08	2082199.32	0.5	2.5	Uranium-238	1.668		1.49	351	pCi/g
BX35-021	748403.42	2082223.71	0.0	0.5	Uranium-235	0.1948		0.0939	8	pCi/g
BX35-021	748403.42	2082223.71	0.0	0.5	Uranium-238	2.178		2	351	pCi/g
BX35-023	748480.76	2082299.03	0.0	0.5	Uranium-238	1.923		1.49	351	pCi/g
BX35-023	748480.76	2082299.03	0.5	2.5	Americium-241	0.1776		0.0200	76	pCi/g
BX35-023	748480.76	2082299.03	0.5	2.5	Plutonium-239/240	1.0123		0.0200	50	pCi/g
BX35-024	748394.46	2082258.57	0.0	0.5	Lithium	12		11.55	20400	mg/kg
BX35-024	748394.46	2082258.57	0.0	0.5	Uranium-235	0.2176		0.0939	8	pCi/g
BX35-026	748385.63	2082293.42	0.0	0.5	Aluminum	40000		16902	228000	mg/kg
BX35-026	748385.63	2082293.42	0.0	0.5	Arsenic	14		10.09	22.2	mg/kg
BX35-026	748385.63	2082293.42	0.0	0.5	Beryllium	1.8		0.966	921	mg/kg
BX35-026	748385.63	2082293.42	0.0	0.5	Chromium	32		16.99	268	mg/kg
BX35-026	748385.63	2082293.42	0.0	0.5	Iron	24000		18037	307000	mg/kg
BX35-026	748385.63	2082293.42	0.0	0.5	Lithium	21		11.55	20400	mg/kg
BX35-026	748385.63	2082293.42	0.0	0.5	Nickel	25		14.91	20400	mg/kg
BX35-026	748385.63	2082293.42	0.0	0.5	Vanadium	63		45.59	7150	mg/kg
BX35-026	748385.63	2082293.42	0.5	2.5	Aluminum	55000		35373.17	228000	mg/kg
BX35-026	748385.63	2082293.42	0.5	2.5	Arsenic	18		13.14	22.2	mg/kg
BX35-026	748385.63	2082293.42	4.5	6.5	Uranium-234	2.873		2.64	300	pCi/g
BX35-026	748385.63	2082293.42	4.5	6.5	Uranium-235	0.1852		0.120	8	pCi/g
BX35-026	748385.63	2082293.42	4.5	6.5	Uranium-238	2.873		1.49	351	pCi/g
BX35-026	748385.63	2082293.42	8.5	10.5	Uranium-238	1.582		1.49	351	pCi/g
BX36-018	748740.84	2082158.33	0.0	0.5	Uranium-235	0.1928		0.0939	8	pCi/g
BX36-018	748740.84	2082158.33	0.5	2.5	Uranium-234	3.831		2.64	300	pCi/g
BX36-018	748740.84	2082158.33	0.5	2.5	Uranium-235	0.1948		0.120	8	pCi/g
BX36-018	748740.84	2082158.33	0.5	2.5	Uranium-238	3.831		1.49	351	pCi/g
BX36-019	748680.78	2082145.88	0.0	0.5	Chromium	18		16.99	268	mg/kg
BX36-019	748680.78	2082145.88	0.5	2.5	Uranium-234	3.361		2.64	300	pCi/g
BX36-019	748680.78	2082145.88	0.5	2.5	Uranium-235	0.302		0.120	8	pCi/g

Location Code	Actual Northing	Actual Easting	Start Depth (ft)	End Depth (ft)	Analyte	Result	Detection Limit	Background Mean+2SD	WRW AL	Unit
BX36-019	748680.78	2082145.88	0.5	2.5	Uranium-238	3.361		1.49	351	pCi/g
BX36-022	748584.66	2082269.88	0.0	0.5	Cadmium	1.7		1.612	962	mg/kg
BX36-022	748584.66	2082269.88	0.0	0.5	Copper	46		18.06	40900	mg/kg
BX36-022	748584.66	2082269.88	0.0	0.5	Uranium, Total	18		5.98	2750	mg/kg
BX36-022	748584.66	2082269.88	0.0	0.5	Uranium-234	5.213		2.253	300	pCi/g
BX36-022	748584.66	2082269.88	0.0	0.5	Uranium-235	0.2263		0.0939	8	pCi/g
BX36-022	748584.66	2082269.88	0.0	0.5	Uranium-238	5.213		2	351	pCi/g
BX36-022	748584.66	2082269.88	0.5	2.5	Uranium-234	3.913		2.64	300	pCi/g
BX36-022	748584.66	2082269.88	0.5	2.5	Uranium-235	0.1962		0.120	8	pCi/g
BX36-022	748584.66	2082269.88	0.5	2.5	Uranium-238	3.913		1.49	351	pCi/g
BX36-023	748601.65	2082329.96	0.0	0.5	Antimony	2.2		0.470	409	mg/kg
BX36-023	748601.65	2082329.96	0.0	0.5	Zinc	190		73.76	307000	mg/kg
BX36-023	748601.65	2082329.96	0.5	2.5	Uranium-235	0.1696		0.120	8	pCi/g
BX37-012	748940.12	2082137.55	0.0	0.5	Uranium-234	3.954		2.253	300	pCi/g
BX37-012	748940.12	2082137.55	0.0	0.5	Uranium-235	0.3437		0.0939	8	pCi/g
BX37-012	748940.12	2082137.55	0.0	0.5	Uranium-238	3.954		2	351	pCi/g
BX37-012	748940.12	2082137.55	0.5	2.5	Uranium-234	3.89		2.64	300	pCi/g
BX37-012	748940.12	2082137.55	0.5	2.5	Uranium-235	0.2857		0.120	8	pCi/g
BX37-012	748940.12	2082137.55	0.5	2.5	Uranium-238	3.89		1.49	351	pCi/g
BX37-013	748908.14	2082147.29	0.5	2.5	Copper	100		38.21	40900	mg/kg
BX37-013	748908.14	2082147.29	0.5	2.5	Lead	37		24.97	1000	mg/kg
BX37-013	748908.14	2082147.29	0.5	2.5	Tetrachloroethene	100	1.2		615000	ug/kg
BX37-013	748908.14	2082147.29	0.5	2.5	Trichloroethene	1.6	1.1		19600	ug/kg
BX37-014	748931.29	2082172.47	0.0	0.5	Benzo(a)anthracene	64	26		34900	ug/kg
BX37-014	748931.29	2082172.47	0.0	0.5	Chrysene	72	29		3490000	ug/kg
BX37-014	748931.29	2082172.47	0.0	0.5	Uranium-234	3.826		2.253	300	pCi/g
BX37-014	748931.29	2082172.47	0.0	0.5	Uranium-235	0.2479		0.0939	8	pCi/g
BX37-014	748931.29	2082172.47	0.0	0.5	Uranium-238	3.826		2	351	pCi/g
BX37-014	748931.29	2082172.47	0.5	2.5	Acenaphthene	54	33		40800000	ug/kg
BX37-014	748931.29	2082172.47	0.5	2.5	Anthracene	110	25		204000000	ug/kg
BX37-014	748931.29	2082172.47	0.5	2.5	Benzo(a)anthracene	260	26		34900	ug/kg

Location Code	Actual Northing	Actual Easting	Start Depth (ft)	End Depth (ft)	Analyte	Result	Detection Limit	Background Mean+2SD	WRW AL	Unit
BX37-014	748931.29	2082172.47	0.5	2.5	Benzo(a)pyrene	240	43		3490	ug/kg
BX37-014	748931.29	2082172.47	0.5	2.5	Benzo(b)fluoranthene	200	31		34900	ug/kg
BX37-014	748931.29	2082172.47	0.5	2.5	Benzo(k)fluoranthene	180	34		349000	ug/kg
BX37-014	748931.29	2082172.47	0.5	2.5	Chrysene	270	30		3490000	ug/kg
BX37-014	748931.29	2082172.47	0.5	2.5	Fluoranthene	510	24		27200000	ug/kg
BX37-014	748931.29	2082172.47	0.5	2.5	Indeno(1,2,3-cd)pyrene	140	24		34900	ug/kg
BX37-014	748931.29	2082172.47	0.5	2.5	Pyrene	570	140		22100000	ug/kg
BX37-014	748931.29	2082172.47	0.5	2.5	Uranium-235	0.1768		0.120	8	pCi/g
BX37-015	748957.06	2082197.57	0.0	0.5	Copper	22		18.06	40900	mg/kg
BX37-015	748957.06	2082197.57	0.0	0.5	Uranium-234	4.051		2.253	300	pCi/g
BX37-015	748957.06	2082197.57	0.0	0.5	Uranium-235	0.2439		0.0939	8	pCi/g
BX37-015	748957.06	2082197.57	0.0	0.5	Uranium-238	4.051		2	351	pCi/g
BX37-015	748957.06	2082197.57	0.5	2.5	Uranium-234	5.79		2.64	300	pCi/g
BX37-015	748957.06	2082197.57	0.5	2.5	Uranium-235	0.2104		0.120	8	pCi/g
BX37-015	748957.06	2082197.57	0.5	2.5	Uranium-238	5.79		1.49	351	pCi/g
BX37-016	748922.46	2082207.29	0.0	0.5	Acenaphthene	63	31		40800000	ug/kg
BX37-016	748922.46	2082207.29	0.0	0.5	Anthracene	110	24		204000000	ug/kg
BX37-016	748922.46	2082207.29	0.0	0.5	Fluoranthene	400	23		27200000	ug/kg
BX37-016	748922.46	2082207.29	0.0	0.5	Fluorene	57	35		40800000	ug/kg
BX37-016	748922.46	2082207.29	0.0	0.5	Pyrene	410	140		22100000	ug/kg
BX37-016	748922.46	2082207.29	0.0	0.5	Uranium-234	5.847		2.253	300	pCi/g
BX37-016	748922.46	2082207.29	0.0	0.5	Uranium-235	0.2348		0.0939	8	pCi/g
BX37-016	748922.46	2082207.29	0.0	0.5	Uranium-238	5.847		2	351	pCi/g
BX37-017	748948.15	2082232.49	0.0	0.5	Aluminum	18000		16902	228000	mg/kg
BX37-017	748948.15	2082232.49	0.0	0.5	Beryllium	1.2		0.966	921	mg/kg
BX37-017	748948.15	2082232.49	0.0	0.5	Chromium	21		16.99	268	mg/kg
BX37-017	748948.15	2082232.49	0.0	0.5	Nickel	20		14.91	20400	mg/kg
BX37-017	748948.15	2082232.49	0.5	2.5	Benzo(a)anthracene	190	29		34900	ug/kg
BX37-017	748948.15	2082232.49	0.5	2.5	Benzo(a)pyrene	320	48		3490	ug/kg
BX37-017	748948.15	2082232.49	0.5	2.5	Benzo(b)fluoranthene	210	34		34900	ug/kg
BX37-017	748948.15	2082232.49	0.5	2.5	Benzo(k)fluoranthene	240	38		349000	ug/kg

Location Code	Actual Northing	Actual Easting	Start Depth (ft)	End Depth (ft)	Analyte	Result	Detection Limit	Background Mean+2SD	WRW AL	Unit
BX37-017	748948.15	2082232.49	0.5	2.5	Chrysene	230	33		3490000	ug/kg
BX37-017	748948.15	2082232.49	0.5	2.5	Fluoranthene	130	27		27200000	ug/kg
BX37-017	748948.15	2082232.49	0.5	2.5	Indeno(1,2,3-cd)pyrene	180	27		34900	ug/kg
BX37-017	748948.15	2082232.49	0.5	2.5	Pyrene	210	160		22100000	ug/kg
BX37-017	748948.15	2082232.49	0.5	2.5	Uranium-234	3.087		2.64	300	pCi/g
BX37-017	748948.15	2082232.49	0.5	2.5	Uranium-235	0.2727		0.120	8	pCi/g
BX37-017	748948.15	2082232.49	0.5	2.5	Uranium-238	3.087		1.49	351	pCi/g
BX37-018	748913.45	2082242.13	0.0	0.5	Acenaphthene	72	33		40800000	ug/kg
BX37-018	748913.45	2082242.13	0.0	0.5	Aluminum	23000		16902	228000	mg/kg
BX37-018	748913.45	2082242.13	0.0	0.5	Anthracene	69	26		204000000	ug/kg
BX37-018	748913.45	2082242.13	0.0	0.5	Beryllium	1		0.966	921	mg/kg
BX37-018	748913.45	2082242.13	0.0	0.5	Fluoranthene	430	25		27200000	ug/kg
BX37-018	748913.45	2082242.13	0.0	0.5	Fluorene	43	37		40800000	ug/kg
BX37-018	748913.45	2082242.13	0.0	0.5	Lithium	12		11.55	20400	mg/kg
BX37-018	748913.45	2082242.13	0.0	0.5	Pyrene	390	140		22100000	ug/kg
BX37-018	748913.45	2082242.13	0.0	0.5	Uranium-234	2.597		2.253	300	pCi/g
BX37-018	748913.45	2082242.13	0.0	0.5	Uranium-235	0.2077		0.0939	8	pCi/g
BX37-018	748913.45	2082242.13	0.0	0.5	Uranium-238	2.597		2	351	pCi/g
BX37-018	748913.45	2082242.13	0.5	2.5	Aluminum	44000		35373.17	228000	mg/kg
BX37-018	**748913.45**	**2082242.13**	**0.5**	**2.5**	**Arsenic**	**23**		**13.14**	**22.2**	**mg/kg**
BX37-018	748913.45	2082242.13	0.5	2.5	Tetrachloroethene	12.6	6.64		615000	ug/kg
BX37-018	748913.45	2082242.13	0.5	2.5	Uranium-234	4.224		2.64	300	pCi/g
BX37-018	748913.45	2082242.13	0.5	2.5	Uranium-238	4.224		1.49	351	pCi/g
BX37-018	748913.45	2082242.13	0.5	2.5	Vanadium	91		88.49	7150	mg/kg
BX37-019	748939.28	2082267.31	0.0	0.5	Uranium-234	2.332		2.253	300	pCi/g
BX37-019	748939.28	2082267.31	0.0	0.5	Uranium-235	0.1847		0.0939	8	pCi/g
BX37-019	748939.28	2082267.31	0.0	0.5	Uranium-238	2.332		2	351	pCi/g
BX37-019	748939.28	2082267.31	0.5	2.5	Uranium-234	3.278		2.64	300	pCi/g
BX37-019	748939.28	2082267.31	0.5	2.5	Uranium-235	0.1465		0.120	8	pCi/g
BX37-019	748939.28	2082267.31	0.5	2.5	Uranium-238	3.278		1.49	351	pCi/g
BX37-020	748909.24	2082263.86	1.0	1.5	Uranium-234	4.053		2.64	300	pCi/g

Location Code	Actual Northing	Actual Easting	Start Depth (ft)	End Depth (ft)	Analyte	Result	Detection Limit	Background Mean+2SD	WRW AL	Unit
BX37-020	748909.24	2082263.86	1.0	1.5	Uranium-235	0.255		0.120	8	pCi/g
BX37-020	748909.24	2082263.86	1.0	1.5	Uranium-238	4.053		1.49	351	pCi/g
BX37-020	748909.24	2082263.86	1.5	3.5	Tetrachloroethene	435	27.7		615000	ug/kg
BX37-021	748930.35	2082302.23	0.0	0.5	Aluminum	22000		16902	228000	mg/kg
BX37-021	748930.35	2082302.23	0.0	0.5	Beryllium	1.1		0.966	921	mg/kg
BX37-021	748930.35	2082302.23	0.0	0.5	Lithium	12		11.55	20400	mg/kg
BX37-021	748930.35	2082302.23	0.0	0.5	Uranium-234	3.541		2.253	300	pCi/g
BX37-021	748930.35	2082302.23	0.0	0.5	Uranium-235	0.137		0.0939	8	pCi/g
BX37-021	748930.35	2082302.23	0.0	0.5	Uranium-238	3.541		2	351	pCi/g
BX37-021	748930.35	2082302.23	0.5	2.5	Uranium-234	2.818		2.64	300	pCi/g
BX37-021	748930.35	2082302.23	0.5	2.5	Uranium-235	0.1847		0.120	8	pCi/g
BX37-021	748930.35	2082302.23	0.5	2.5	Uranium-238	2.818		1.49	351	pCi/g
BY35-006	748437.21	2082343.72	0.0	0.5	Uranium-234	3.94		2.64	300	pCi/g
BY35-006	748437.21	2082343.72	0.0	0.5	Uranium-235	0.2076		0.120	8	pCi/g
BY35-006	748437.21	2082343.72	0.0	0.5	Uranium-238	3.94		1.49	351	pCi/g
BY35-006	748437.21	2082343.72	0.5	1.0	Uranium-234	4.035		2.64	300	pCi/g
BY35-006	748437.21	2082343.72	0.5	1.0	Uranium-235	0.2233		0.120	8	pCi/g
BY35-006	748437.21	2082343.72	0.5	1.0	Uranium-238	4.035		1.49	351	pCi/g
BY35-007	748462.97	2082368.83	0.0	0.5	Copper	40		38.21	40900	mg/kg
BY35-007	748462.97	2082368.83	0.0	0.5	Uranium-234	3.485		2.64	300	pCi/g
BY35-007	748462.97	2082368.83	0.0	0.5	Uranium-235	0.1939		0.120	8	pCi/g
BY35-007	748462.97	2082368.83	0.0	0.5	Uranium-238	3.485		1.49	351	pCi/g
BY35-007	748462.97	2082368.83	0.5	2	Uranium-238	2.051		1.49	351	pCi/g
BY35-008	748514.43	2082419.09	0.0	0.5	4,4'-DDD	3.5	3.4		143000	ug/kg
BY35-008	748514.43	2082419.09	0.0	0.5	Acenaphthene	290	32		40800000	ug/kg
BY35-008	748514.43	2082419.09	0.0	0.5	Anthracene	320	25		204000000	ug/kg
BY35-008	748514.43	2082419.09	0.0	0.5	Aroclor-1260	25	6.3		12400	ug/kg
BY35-008	748514.43	2082419.09	0.0	0.5	Barium	160		141.26	26400	mg/kg
BY35-008	748514.43	2082419.09	0.0	0.5	Benzo(a)anthracene	1000	26		34900	ug/kg
BY35-008	748514.43	2082419.09	0.0	0.5	Benzo(a)pyrene	1100	42		3490	ug/kg
BY35-008	748514.43	2082419.09	0.0	0.5	Benzo(b)fluoranthene	890	30		34900	ug/kg

Location Code	Actual Northing	Actual Easting	Start Depth (ft)	End Depth (ft)	Analyte	Result	Detection Limit	Background Mean+2SD	WRW AL	Unit
BY35-008	748514.43	2082419.09	0.0	0.5	Benzo(k)fluoranthene	860	33		349000	ug/kg
BY35-008	748514.43	2082419.09	0.0	0.5	Beryllium	1		0.966	921	mg/kg
BY35-008	748514.43	2082419.09	0.0	0.5	bis(2-Ethylhexyl)phthalate	480	75		1970000	ug/kg
BY35-008	748514.43	2082419.09	0.0	0.5	Chromium	21		16.99	268	mg/kg
BY35-008	748514.43	2082419.09	0.0	0.5	Chrysene	1300	29		3490000	ug/kg
BY35-008	748514.43	2082419.09	0.0	0.5	Dibenzofuran	85	37		2950000	ug/kg
BY35-008	748514.43	2082419.09	0.0	0.5	Fluoranthene	2500	24		27200000	ug/kg
BY35-008	748514.43	2082419.09	0.0	0.5	Fluorene	210	35		40800000	ug/kg
BY35-008	748514.43	2082419.09	0.0	0.5	Indeno(1,2,3-cd)pyrene	610	24		34900	ug/kg
BY35-008	748514.43	2082419.09	0.0	0.5	Pyrene	2400	140		22100000	ug/kg
BY35-008	748514.43	2082419.09	0.0	0.5	Zinc	150		73.76	307000	mg/kg
BY35-008	748514.43	2082419.09	0.5	2.5	1,1,1-Trichloroethane	6.4	1.1		79700000	ug/kg
BY35-008	748514.43	2082419.09	0.5	2.5	2-Methylnaphthalene	1400	34		20400000	ug/kg
BY35-008	748514.43	2082419.09	0.5	2.5	4,4'-DDD	4.2	3.5		143000	ug/kg
BY35-008	748514.43	2082419.09	0.5	2.5	4-Methylphenol	95	58		3690000	ug/kg
BY35-008	748514.43	2082419.09	0.5	2.5	Acenaphthene	7900	660		40800000	ug/kg
BY35-008	748514.43	2082419.09	0.5	2.5	Anthracene	6900	510		204000000	ug/kg
BY35-008	748514.43	2082419.09	0.5	2.5	Aroclor-1260	27	6.5		12400	ug/kg
BY35-008	748514.43	2082419.09	0.5	2.5	Benzo(a)anthracene	16000	530		34900	ug/kg
BY35-008	**748514.43**	**2082419.09**	**0.5**	**2.5**	**Benzo(a)pyrene**	**15000**	**860**		**3490**	**ug/kg**
BY35-008	748514.43	2082419.09	0.5	2.5	Benzo(b)fluoranthene	11000	620		34900	ug/kg
BY35-008	748514.43	2082419.09	0.5	2.5	Benzo(k)fluoranthene	14000	680		349000	ug/kg
BY35-008	748514.43	2082419.09	0.5	2.5	bis(2-Ethylhexyl)phthalate	240	77		1970000	ug/kg
BY35-008	748514.43	2082419.09	0.5	2.5	Chromium	130		68.27	268	mg/kg
BY35-008	748514.43	2082419.09	0.5	2.5	Chrysene	19000	590		3490000	ug/kg
BY35-008	**748514.43**	**2082419.09**	**0.5**	**2.5**	**Dibenz(a,h)anthracene**	**3600**	**26**		**3490**	**ug/kg**
BY35-008	748514.43	2082419.09	0.5	2.5	Dibenzofuran	3300	38		2950000	ug/kg
BY35-008	748514.43	2082419.09	0.5	2.5	Fluoranthene	40000	480		27200000	ug/kg
BY35-008	748514.43	2082419.09	0.5	2.5	Fluorene	6300	730		40800000	ug/kg
BY35-008	748514.43	2082419.09	0.5	2.5	Indeno(1,2,3-cd)pyrene	6900	480		34900	ug/kg
BY35-008	748514.43	2082419.09	0.5	2.5	Naphthalene	3000	34		3090000	ug/kg

Location Code	Actual Northing	Actual Easting	Start Depth (ft)	End Depth (ft)	Analyte	Result	Detection Limit	Background Mean+2SD	WRW AL	Unit
BY35-008	748514.43	2082419.09	0.5	2.5	Pyrene	46000	2900		22100000	ug/kg
BY35-008	748514.43	2082419.09	0.5	2.5	Silver	110		24.54	5110	mg/kg
BY35-008	748514.43	2082419.09	0.5	2.5	Tetrachloroethene	9.9	1.1		615000	ug/kg
BY35-009	748540.25	2082444.24	0.0	0.5	Uranium-238	1.872		1.49	351	pCi/g
BY35-010	748431.34	2082378.52	0.0	0.5	Uranium-234	3.918		2.64	300	pCi/g
BY35-010	748431.34	2082378.52	0.0	0.5	Uranium-235	0.2428		0.120	8	pCi/g
BY35-010	748431.34	2082378.52	0.0	0.5	Uranium-238	3.918		1.49	351	pCi/g
BY35-010	748431.34	2082378.52	0.5	1.5	Copper	39		38.21	40900	mg/kg
BY35-010	748431.34	2082378.52	0.5	1.5	Uranium-235	0.1381		0.120	8	pCi/g
BY35-011	748454.08	2082403.66	0.0	0.5	Cadmium	2		1.7	962	mg/kg
BY35-011	748454.08	2082403.66	0.5	1.0	Cadmium	2.7		1.7	962	mg/kg
BY35-011	748454.08	2082403.66	0.5	1.0	Toluene	5.85	5.42		31300000	ug/kg
BY35-012	748505.52	2082454.02	0.0	0.5	Acenaphthene	190	38		40800000	ug/kg
BY35-012	748505.52	2082454.02	0.0	0.5	Anthracene	210	30		204000000	ug/kg
BY35-012	748505.52	2082454.02	0.0	0.5	Antimony	0.52		0.470	409	mg/kg
BY35-012	748505.52	2082454.02	0.0	0.5	Aroclor-1260	280	7.6		12400	ug/kg
BY35-012	748505.52	2082454.02	0.0	0.5	Benzo(a)anthracene	560	31		34900	ug/kg
BY35-012	748505.52	2082454.02	0.0	0.5	Benzo(a)pyrene	580	50		3490	ug/kg
BY35-012	748505.52	2082454.02	0.0	0.5	Benzo(b)fluoranthene	440	36		34900	ug/kg
BY35-012	748505.52	2082454.02	0.0	0.5	Benzo(k)fluoranthene	540	40		349000	ug/kg
BY35-012	748505.52	2082454.02	0.0	0.5	Beryllium	2.4		0.966	921	mg/kg
BY35-012	748505.52	2082454.02	0.0	0.5	bis(2-Ethylhexyl)phthalate	200	90		1970000	ug/kg
BY35-012	748505.52	2082454.02	0.0	0.5	Cadmium	2.1		1.612	962	mg/kg
BY35-012	748505.52	2082454.02	0.0	0.5	Chromium	29		16.99	268	mg/kg
BY35-012	748505.52	2082454.02	0.0	0.5	Chrysene	690	35		3490000	ug/kg
BY35-012	748505.52	2082454.02	0.0	0.5	Copper	36		18.06	40900	mg/kg
BY35-012	748505.52	2082454.02	0.0	0.5	Dibenz(a,h)anthracene	99	31		3490	ug/kg
BY35-012	748505.52	2082454.02	0.0	0.5	Dibenzofuran	64	45		2950000	ug/kg
BY35-012	748505.52	2082454.02	0.0	0.5	Fluoranthene	1700	28		27200000	ug/kg
BY35-012	748505.52	2082454.02	0.0	0.5	Fluorene	150	42		40800000	ug/kg
BY35-012	748505.52	2082454.02	0.0	0.5	Indeno(1,2,3-cd)pyrene	310	28		34900	ug/kg

Location Code	Actual Northing	Actual Easting	Start Depth (ft)	End Depth (ft)	Analyte	Result	Detection Limit	Background Mean+2SD	WRW AL	Unit
BY35-012	748505.52	2082454.02	0.0	0.5	Lead	280		54.62	1000	mg/kg
BY35-012	748505.52	2082454.02	0.0	0.5	Nickel	16		14.91	20400	mg/kg
BY35-012	748505.52	2082454.02	0.0	0.5	Pyrene	980	170		22100000	ug/kg
BY35-012	748505.52	2082454.02	0.0	0.5	Uranium-234	3.368		2.253	300	pCi/g
BY35-012	748505.52	2082454.02	0.0	0.5	Uranium-235	0.4391		0.0939	8	pCi/g
BY35-012	748505.52	2082454.02	0.0	0.5	Uranium-238	3.368		2	351	pCi/g
BY35-012	748505.52	2082454.02	0.0	0.5	Zinc	630		73.76	307000	mg/kg
BY35-012	748505.52	2082454.02	0.5	2.5	2-Methylnaphthalene	62	41		20400000	ug/kg
BY35-012	748505.52	2082454.02	0.5	2.5	Acenaphthene	540	39		40800000	ug/kg
BY35-012	748505.52	2082454.02	0.5	2.5	Anthracene	580	30		204000000	ug/kg
BY35-012	748505.52	2082454.02	0.5	2.5	Aroclor-1260	87	7.7		12400	ug/kg
BY35-012	748505.52	2082454.02	0.5	2.5	Benzo(a)anthracene	1500	31		34900	ug/kg
BY35-012	748505.52	2082454.02	0.5	2.5	Benzo(a)pyrene	1600	51		3490	ug/kg
BY35-012	748505.52	2082454.02	0.5	2.5	Benzo(b)fluoranthene	1400	37		34900	ug/kg
BY35-012	748505.52	2082454.02	0.5	2.5	Benzo(k)fluoranthene	1400	41		349000	ug/kg
BY35-012	748505.52	2082454.02	0.5	2.5	Chrysene	1800	35		3490000	ug/kg
BY35-012	748505.52	2082454.02	0.5	2.5	Dibenz(a,h)anthracene	400	31		3490	ug/kg
BY35-012	748505.52	2082454.02	0.5	2.5	Dibenzofuran	210	46		2950000	ug/kg
BY35-012	748505.52	2082454.02	0.5	2.5	Fluoranthene	4000	29		27200000	ug/kg
BY35-012	748505.52	2082454.02	0.5	2.5	Fluorene	470	43		40800000	ug/kg
BY35-012	748505.52	2082454.02	0.5	2.5	Indeno(1,2,3-cd)pyrene	850	29		34900	ug/kg
BY35-012	748505.52	2082454.02	0.5	2.5	Naphthalene	87	41		3090000	ug/kg
BY35-012	748505.52	2082454.02	0.5	2.5	Pyrene	3700	170		22100000	ug/kg
BY35-012	748505.52	2082454.02	0.5	2.5	Silver	98		24.54	5110	mg/kg
BY35-012	748505.52	2082454.02	0.5	2.5	Uranium-234	4.802		2.64	300	pCi/g
BY35-012	748505.52	2082454.02	0.5	2.5	Uranium-238	4.802		1.49	351	pCi/g
BY35-013	748531.33	2082479.18	0.0	0.5	Plutonium-239/240	0.175		0.0200	50	pCi/g
BY35-013	748531.33	2082479.18	0.5	2.5	Acetone	27	4.9		102000000	ug/kg
BY35-013	748531.33	2082479.18	0.5	2.5	Americium-241	0.138		0.0200	76	pCi/g
BY35-013	748531.33	2082479.18	0.5	2.5	Plutonium-239/240	0.284		0.0200	50	pCi/g
BY35-014	748557.08	2082504.33	0.0	0.5	Uranium-234	5.596		2.253	300	pCi/g

Location Code	Actual Northing	Actual Easting	Start Depth (ft)	End Depth (ft)	Analyte	Result	Detection Limit	Background Mean+2SD	WRW AL	Unit
BY35-014	748557.08	2082504.33	0.0	0.5	Uranium-235	0.1437		0.0939	8	pCi/g
BY35-014	748557.08	2082504.33	0.0	0.5	Uranium-238	5.596		2	351	pCi/g
BY35-014	748557.08	2082504.33	0.5	1.5	Naphthalene	5.91	5.86		3090000	ug/kg
BY35-014	748557.08	2082504.33	0.5	1.5	Uranium, Total	4.8		3.04	2750	mg/kg
BY35-014	748557.08	2082504.33	0.5	1.5	Uranium-234	2.92		2.64	300	pCi/g
BY35-014	748557.08	2082504.33	0.5	1.5	Uranium-238	2.92		1.49	351	pCi/g
BY35-015	748419.23	2082416.68	0.0	0.5	Uranium-235	0.1403		0.120	8	pCi/g
BY35-015	748419.23	2082416.68	0.0	0.5	Zinc	190		139.1	307000	mg/kg
BY35-016	748440.88	2082438.77	0.0	0.5	Zinc	240		139.1	307000	mg/kg
BY35-017	748540.18	2082444.04	0.5	1.0	4,4'-DDD	10	3.3		143000	ug/kg
BY35-017	748540.18	2082444.04	0.5	1.0	4,4'-DDE	7.2	3.1		101000	ug/kg
BY35-017	748540.18	2082444.04	0.5	1.0	4,4'-DDT	9.1	5.4		100000	ug/kg
BY35-017	748540.18	2082444.04	0.5	1.0	Acenaphthene	90	32		40800000	ug/kg
BY35-017	748540.18	2082444.04	0.5	1.0	alpha-BHC	7.9	4.4		5240	ug/kg
BY35-017	748540.18	2082444.04	0.5	1.0	Anthracene	100	25		204000000	ug/kg
BY35-017	748540.18	2082444.04	0.5	1.0	Aroclor-1260	13	6.4		12400	ug/kg
BY35-017	748540.18	2082444.04	0.5	1.0	Benzo(a)anthracene	260	26		34900	ug/kg
BY35-017	748540.18	2082444.04	0.5	1.0	Benzo(a)pyrene	280	42		3490	ug/kg
BY35-017	748540.18	2082444.04	0.5	1.0	Benzo(b)fluoranthene	220	30		34900	ug/kg
BY35-017	748540.18	2082444.04	0.5	1.0	Benzo(k)fluoranthene	270	33		349000	ug/kg
BY35-017	748540.18	2082444.04	0.5	1.0	Chrysene	320	29		3490000	ug/kg
BY35-017	748540.18	2082444.04	0.5	1.0	Dieldrin	8.2	3.1		1720	ug/kg
BY35-017	748540.18	2082444.04	0.5	1.0	Endosulfan I	7.4	3.2		4420000	ug/kg
BY35-017	748540.18	2082444.04	0.5	1.0	Endosulfan II	9.9	3.5		4420000	ug/kg
BY35-017	748540.18	2082444.04	0.5	1.0	Endosulfan sulfate	11	3.2		4420000	ug/kg
BY35-017	748540.18	2082444.04	0.5	1.0	Endrin	17	3.8		221000	ug/kg
BY35-017	748540.18	2082444.04	0.5	1.0	Fluoranthene	700	24		27200000	ug/kg
BY35-017	748540.18	2082444.04	0.5	1.0	Fluorene	63	36		40800000	ug/kg
BY35-017	748540.18	2082444.04	0.5	1.0	gamma-BHC	8.3	4.4		25500	ug/kg
BY35-017	748540.18	2082444.04	0.5	1.0	Heptachlor epoxide	7.2	3.2		3030	ug/kg
BY35-017	748540.18	2082444.04	0.5	1.0	Indeno(1,2,3-cd)pyrene	160	24		34900	ug/kg

Location Code	Actual Northing	Actual Easting	Start Depth (ft)	End Depth (ft)	Analyte	Result	Detection Limit	Background Mean+2SD	WRW AL	Unit
BY35-017	748540.18	2082444.04	0.5	1.0	Methoxychlor	12	6.7		5110000	ug/kg
BY35-017	748540.18	2082444.04	0.5	1.0	Phenol	130	37		613000000	ug/kg
BY35-017	748540.18	2082444.04	0.5	1.0	Pyrene	670	140		22100000	ug/kg
BY35-017	748540.18	2082444.04	0.5	1.0	Uranium-234	2.857		2.253	300	pCi/g
BY35-017	748540.18	2082444.04	0.5	1.0	Uranium-238	2.857		2	351	pCi/g
BY35-017	748540.18	2082444.04	1.0	2.0	4,4'-DDD	7.6	3.4		143000	ug/kg
BY35-017	748540.18	2082444.04	1.0	2.0	4,4'-DDE	4.8	3.2		101000	ug/kg
BY35-017	748540.18	2082444.04	1.0	2.0	4,4'-DDT	6.8	5.4		100000	ug/kg
BY35-017	748540.18	2082444.04	1.0	2.0	Acenaphthene	56	33		40800000	ug/kg
BY35-017	748540.18	2082444.04	1.0	2.0	alpha-BHC	6.8	4.5		5240	ug/kg
BY35-017	748540.18	2082444.04	1.0	2.0	Anthracene	59	25		204000000	ug/kg
BY35-017	748540.18	2082444.04	1.0	2.0	Aroclor-1260	16	6.4		12400	ug/kg
BY35-017	748540.18	2082444.04	1.0	2.0	Benzo(a)anthracene	240	26		34900	ug/kg
BY35-017	748540.18	2082444.04	1.0	2.0	Benzo(a)pyrene	270	42		3490	ug/kg
BY35-017	748540.18	2082444.04	1.0	2.0	Benzo(b)fluoranthene	230	30		34900	ug/kg
BY35-017	748540.18	2082444.04	1.0	2.0	Benzo(k)fluoranthene	240	34		349000	ug/kg
BY35-017	748540.18	2082444.04	1.0	2.0	Chrysene	320	29		3490000	ug/kg
BY35-017	748540.18	2082444.04	1.0	2.0	Dieldrin	6.4	3.2		1720	ug/kg
BY35-017	748540.18	2082444.04	1.0	2.0	Endosulfan I	3.6	3.3		4420000	ug/kg
BY35-017	748540.18	2082444.04	1.0	2.0	Endosulfan II	5.1	3.5		4420000	ug/kg
BY35-017	748540.18	2082444.04	1.0	2.0	Endosulfan sulfate	5.3	3.3		4420000	ug/kg
BY35-017	748540.18	2082444.04	1.0	2.0	Endrin	7.5	3.8		221000	ug/kg
BY35-017	748540.18	2082444.04	1.0	2.0	Fluoranthene	550	24		27200000	ug/kg
BY35-017	748540.18	2082444.04	1.0	2.0	Heptachlor epoxide	4.2	3.3		3030	ug/kg
BY35-017	748540.18	2082444.04	1.0	2.0	Indeno(1,2,3-cd)pyrene	180	24		34900	ug/kg
BY35-017	748540.18	2082444.04	1.0	2.0	Phenol	98	37		613000000	ug/kg
BY35-017	748540.18	2082444.04	1.0	2.0	Pyrene	600	140		22100000	ug/kg
BY35-017	748540.18	2082444.04	1.0	2.0	Uranium-235	0.2188		0.120	8	pCi/g
BY35-017	748540.18	2082444.04	1.0	2.0	Uranium-238	1.649		1.49	351	pCi/g
BY35-017-01	748496.64	2082489.23	2.5	4.5	Aluminum	46000		35373.17	228000	mg/kg
BY35-017-01	748496.64	2082489.23	2.5	4.5	Uranium-235	0.1426		0.120	8	pCi/g

Location Code	Actual Northing	Actual Easting	Start Depth (ft)	End Depth (ft)	Analyte	Result	Detection Limit	Background Mean+2SD	WRW AL	Unit
BY35-017-01	748496.64	2082489.23	6.5	8.5	Uranium-235	0.1387		0.120	8	pCi/g
BY35-018	748523.31	2082514.21	0.0	0.5	Mercury	0.55		0.134	25200	mg/kg
BY35-018	748523.31	2082514.21	0.0	0.5	Nickel	29		14.91	20400	mg/kg
BY35-018	748523.31	2082514.21	0.0	0.5	Zinc	83		73.76	307000	mg/kg
BY35-018	748523.31	2082514.21	2.5	4.5	Uranium-235	0.1294		0.120	8	pCi/g
BY35-018	748523.31	2082514.21	4.5	6.5	Manganese	1100		901.62	3480	mg/kg
BY35-018	748523.31	2082514.21	4.5	6.5	Uranium-234	3.523		2.64	300	pCi/g
BY35-018	748523.31	2082514.21	4.5	6.5	Uranium-235	0.2136		0.120	8	pCi/g
BY35-018	748523.31	2082514.21	4.5	6.5	Uranium-238	3.523		1.49	351	pCi/g
BY35-018	748523.31	2082514.21	6.5	8.5	Uranium-234	3.456		2.64	300	pCi/g
BY35-018	748523.31	2082514.21	6.5	8.5	Uranium-238	3.456		1.49	351	pCi/g
BY35-018	748523.31	2082514.21	8.5	10.5	Uranium-234	3.803		2.64	300	pCi/g
BY35-018	748523.31	2082514.21	8.5	10.5	Uranium-235	0.2182		0.120	8	pCi/g
BY35-018	748523.31	2082514.21	8.5	10.5	Uranium-238	3.803		1.49	351	pCi/g
BY35-019	748384.71	2082423.19	0.0	0.5	Uranium-234	3.883		2.64	300	pCi/g
BY35-019	748384.71	2082423.19	0.0	0.5	Uranium-235	0.2613		0.120	8	pCi/g
BY35-019	748384.71	2082423.19	0.0	0.5	Uranium-238	3.883		1.49	351	pCi/g
BY35-019	748384.71	2082423.19	0.5	2.5	Uranium-234	3.518		2.64	300	pCi/g
BY35-019	748384.71	2082423.19	0.5	2.5	Uranium-238	3.518		1.49	351	pCi/g
BY35-020	748410.53	2082448.33	0.5	2.5	Uranium-234	3.998		2.64	300	pCi/g
BY35-020	748410.53	2082448.33	0.5	2.5	Uranium-235	0.2066		0.120	8	pCi/g
BY35-020	748410.53	2082448.33	0.5	2.5	Uranium-238	3.998		1.49	351	pCi/g
BY35-020	748410.53	2082448.33	2.5	4.5	Uranium-234	2.957		2.64	300	pCi/g
BY35-020	748410.53	2082448.33	2.5	4.5	Uranium-235	0.1636		0.120	8	pCi/g
BY35-020	748410.53	2082448.33	2.5	4.5	Uranium-238	2.957		1.49	351	pCi/g
BY35-020	748410.53	2082448.33	4.5	6.5	Uranium-234	3.519		2.64	300	pCi/g
BY35-020	748410.53	2082448.33	4.5	6.5	Uranium-235	0.2235		0.120	8	pCi/g
BY35-020	748410.53	2082448.33	4.5	6.5	Uranium-238	3.519		1.49	351	pCi/g
BY35-020	748410.53	2082448.33	6.5	8.5	Uranium-234	4.095		2.64	300	pCi/g
BY35-020	748410.53	2082448.33	6.5	8.5	Uranium-235	0.189		0.120	8	pCi/g
BY35-020	748410.53	2082448.33	6.5	8.5	Uranium-238	4.095		1.49	351	pCi/g

Location Code	Actual Northing	Actual Easting	Start Depth (ft)	End Depth (ft)	Analyte	Result	Detection Limit	Background Mean+2SD	WRW AL	Unit
BY35-020	748410.53	2082448.33	8.5	10.5	Uranium-234	3.964		2.64	300	pCi/g
BY35-020	748410.53	2082448.33	8.5	10.5	Uranium-235	0.2156		0.120	8	pCi/g
BY35-020	748410.53	2082448.33	8.5	10.5	Uranium-238	3.964		1.49	351	pCi/g
BY35-021	748436.33	2082473.58	0.0	0.5	Copper	21		18.06	40900	mg/kg
BY35-021	748436.33	2082473.58	0.0	0.5	Uranium-234	3.609		2.253	300	pCi/g
BY35-021	748436.33	2082473.58	0.0	0.5	Uranium-235	0.2399		0.0939	8	pCi/g
BY35-021	748436.33	2082473.58	0.0	0.5	Uranium-238	3.609		2	351	pCi/g
BY35-021	748436.33	2082473.58	0.0	0.5	Zinc	100		73.76	307000	mg/kg
BY35-022	748462.05	2082498.67	0.0	0.5	Uranium-234	3.732		2.253	300	pCi/g
BY35-022	748462.05	2082498.67	0.0	0.5	Uranium-235	0.2239		0.0939	8	pCi/g
BY35-022	748462.05	2082498.67	0.0	0.5	Uranium-238	3.732		2	351	pCi/g
BY35-022	748462.05	2082498.67	0.5	2.5	Uranium-234	4.526		2.64	300	pCi/g
BY35-022	748462.05	2082498.67	0.5	2.5	Uranium-235	0.2193		0.120	8	pCi/g
BY35-022	748462.05	2082498.67	0.5	2.5	Uranium-238	4.526		1.49	351	pCi/g
BY35-023	748379.3	2082453.77	0.5	2.5	Aluminum	61000		35373.17	228000	mg/kg
BY35-023	748379.3	2082453.77	0.5	2.5	Arsenic	20		13.14	22.2	mg/kg
BY35-023	748379.3	2082453.77	0.5	2.5	Vanadium	100		88.49	7150	mg/kg
BY35-023	748379.3	2082453.77	2.5	4.5	Aluminum	52000		35373.17	228000	mg/kg
BY35-023	748379.3	2082453.77	2.5	4.5	Arsenic	15		13.14	22.2	mg/kg
BY35-024	748405.03	2082480.26	0.0	0.5	Uranium-235	0.1394		0.120	8	pCi/g
BY35-025	748427.51	2082508.43	0.0	0.5	Antimony	2.1		0.470	409	mg/kg
BY35-025	748427.51	2082508.43	0.0	0.5	Chromium	22		16.99	268	mg/kg
BY35-025	748427.51	2082508.43	0.0	0.5	Cobalt	14		10.91	1550	mg/kg
BY35-025	748427.51	2082508.43	0.0	0.5	Nickel	280		14.91	20400	mg/kg
BY35-025	748427.51	2082508.43	0.0	0.5	Uranium-234	3.834		2.253	300	pCi/g
BY35-025	748427.51	2082508.43	0.0	0.5	Uranium-235	0.1803		0.0939	8	pCi/g
BY35-025	748427.51	2082508.43	0.0	0.5	Uranium-238	3.834		2	351	pCi/g
BY35-026	748453.17	2082533.5	0.0	0.5	Nickel	45		14.91	20400	mg/kg
BY35-026	748453.17	2082533.5	0.0	0.5	Uranium-235	0.1308		0.0939	8	pCi/g
BY35-026	748453.17	2082533.5	0.0	0.5	Uranium-238	2.018		2	351	pCi/g
BY35-026	748453.17	2082533.5	0.0	0.5	Zinc	77		73.76	307000	mg/kg

Location Code	Actual Northing	Actual Easting	Start Depth (ft)	End Depth (ft)	Analyte	Result	Detection Limit	Background Mean+2SD	WRW AL	Unit
BY35-027	748392.77	2082518.09	0.5	2.5	Uranium-234	4.042		2.64	300	pCi/g
BY35-027	748392.77	2082518.09	0.5	2.5	Uranium-235	0.1655		0.120	8	pCi/g
BY35-027	748392.77	2082518.09	0.5	2.5	Uranium-238	4.042		1.49	351	pCi/g
BY35-027	748392.77	2082518.09	4.5	6.5	Uranium-235	0.1275		0.120	8	pCi/g
BY35-027	748392.77	2082518.09	8.5	10.5	Barium	420		289.38	26400	mg/kg
BY35-027	748392.77	2082518.09	8.5	10.5	Manganese	1400		901.62	3480	mg/kg
BY36-019	748635.41	2082464.99	0.0	0.5	Copper	75		18.06	40900	mg/kg
BY36-019	748635.41	2082464.99	0.0	0.5	Uranium-234	3.89		2.253	300	pCi/g
BY36-019	748635.41	2082464.99	0.0	0.5	Uranium-235	0.2869		0.0939	8	pCi/g
BY36-019	748635.41	2082464.99	0.0	0.5	Uranium-238	3.89		2	351	pCi/g
BY36-019	748635.41	2082464.99	0.5	2.5	Uranium-238	2.113		1.49	351	pCi/g
BY36-020	748661.13	2082475.07	0.0	0.5	Uranium-234	4.78		2.253	300	pCi/g
BY36-020	748661.13	2082475.07	0.0	0.5	Uranium-235	0.1232		0.0939	8	pCi/g
BY36-020	748661.13	2082475.07	0.0	0.5	Uranium-238	4.78		2	351	pCi/g
BY36-020	748661.13	2082475.07	0.5	2.5	Uranium-234	4.774		2.64	300	pCi/g
BY36-020	748661.13	2082475.07	0.5	2.5	Uranium-235	0.2298		0.120	8	pCi/g
BY36-020	748661.13	2082475.07	0.5	2.5	Uranium-238	4.774		1.49	351	pCi/g
BY36-021	748708.42	2082541.92	0.0	0.5	Aluminum	21000		16902	228000	mg/kg
BY36-021	748708.42	2082541.92	0.0	0.5	Antimony	0.49		0.470	409	mg/kg
BY36-021	748708.42	2082541.92	0.0	0.5	Beryllium	1.3		0.966	921	mg/kg
BY36-021	748708.42	2082541.92	0.0	0.5	Chromium	69		16.99	268	mg/kg
BY36-021	748708.42	2082541.92	0.0	0.5	Copper	37		18.06	40900	mg/kg
BY36-021	748708.42	2082541.92	0.0	0.5	Iron	45000		18037	307000	mg/kg
BY36-021	748708.42	2082541.92	0.0	0.5	Lead	590		54.62	1000	mg/kg
BY36-021	748708.42	2082541.92	0.0	0.5	Lithium	14		11.55	20400	mg/kg
BY36-021	748708.42	2082541.92	0.0	0.5	Nickel	17		14.91	20400	mg/kg
BY36-021	748708.42	2082541.92	0.0	0.5	Uranium, Total	8		5.98	2750	mg/kg
BY36-021	748708.42	2082541.92	0.0	0.5	Uranium-234	4.631		2.253	300	pCi/g
BY36-021	748708.42	2082541.92	0.0	0.5	Uranium-235	0.2521		0.0939	8	pCi/g
BY36-021	748708.42	2082541.92	0.0	0.5	Uranium-238	4.631		2	351	pCi/g
BY36-021	748708.42	2082541.92	0.0	0.5	Zinc	93		73.76	307000	mg/kg

Location Code	Actual Northing	Actual Easting	Start Depth (ft)	End Depth (ft)	Analyte	Result	Detection Limit	Background Mean+2SD	WRW AL	Unit
BY36-021	748708.42	2082541.92	0.5	2.5	Lead	49		24.97	1000	mg/kg
BY36-021	748708.42	2082541.92	0.5	2.5	Uranium-234	6.278		2.64	300	pCi/g
BY36-021	748708.42	2082541.92	0.5	2.5	Uranium-235	0.1998		0.120	8	pCi/g
BY36-021	748708.42	2082541.92	0.5	2.5	Uranium-238	6.278		1.49	351	pCi/g
BY36-022	748600.63	2082459.71	0.0	0.5	Antimony	0.54		0.470	409	mg/kg
BY36-022	748600.63	2082459.71	0.0	0.5	Beryllium	2.1		0.966	921	mg/kg
BY36-022	748600.63	2082459.71	0.0	0.5	Chromium	26		16.99	268	mg/kg
BY36-022	748600.63	2082459.71	0.0	0.5	Copper	21		18.06	40900	mg/kg
BY36-022	748600.63	2082459.71	0.0	0.5	Selenium	1.4		1.224	5110	mg/kg
BY36-022	748600.63	2082459.71	0.0	0.5	Uranium-238	2.207		2	351	pCi/g
BY36-022	748600.63	2082459.71	0.0	0.5	Zinc	130		73.76	307000	mg/kg
BY36-022	748600.63	2082459.71	0.5	2.5	1,1,1-Trichloroethane	13.7	5.82		79700000	ug/kg
BY36-022	748600.63	2082459.71	0.5	2.5	Copper	110		38.21	40900	mg/kg
BY36-022	748600.63	2082459.71	0.5	2.5	Naphthalene	11	5.82		3090000	ug/kg
BY36-022	748600.63	2082459.71	0.5	2.5	Uranium-234	5.223		2.64	300	pCi/g
BY36-022	748600.63	2082459.71	0.5	2.5	Uranium-235	0.3286		0.120	8	pCi/g
BY36-022	748600.63	2082459.71	0.5	2.5	Uranium-238	5.223		1.49	351	pCi/g
BY36-023	748626.39	2082484.84	0.0	0.5	Aluminum	30000		16902	228000	mg/kg
BY36-023	748626.39	2082484.84	0.0	0.5	Beryllium	1.4		0.966	921	mg/kg
BY36-023	748626.39	2082484.84	0.0	0.5	Chromium	24		16.99	268	mg/kg
BY36-023	748626.39	2082484.84	0.0	0.5	Lithium	18		11.55	20400	mg/kg
BY36-023	748626.39	2082484.84	0.0	0.5	Mercury	0.21		0.134	25200	mg/kg
BY36-023	748626.39	2082484.84	0.0	0.5	Nickel	19		14.91	20400	mg/kg
BY36-023	748626.39	2082484.84	0.0	0.5	Strontium	78		48.94	613000	mg/kg
BY36-023	748626.39	2082484.84	0.0	0.5	Uranium-234	4.72		2.253	300	pCi/g
BY36-023	748626.39	2082484.84	0.0	0.5	Uranium-235	0.2902		0.0939	8	pCi/g
BY36-023	748626.39	2082484.84	0.0	0.5	Uranium-238	4.72		2	351	pCi/g
BY36-023	748626.39	2082484.84	0.0	0.5	Vanadium	46		45.59	7150	mg/kg
BY36-023	748626.39	2082484.84	0.5	2.5	Naphthalene	82.6	5.61		3090000	ug/kg
BY36-023	748626.39	2082484.84	0.5	2.5	Tetrachloroethene	5.62	5.61		615000	ug/kg
BY36-023	748626.39	2082484.84	0.5	2.5	Uranium-234	3.709		2.64	300	pCi/g

Location Code	Actual Northing	Actual Easting	Start Depth (ft)	End Depth (ft)	Analyte	Result	Detection Limit	Background Mean+2SD	WRW AL	Unit
BY36-023	748626.39	2082484.84	0.5	2.5	Uranium-235	0.2124		0.120	8	pCi/g
BY36-023	748626.39	2082484.84	0.5	2.5	Uranium-238	3.709		1.49	351	pCi/g
BY36-024	748645.05	2082506.09	0.5	2.5	Uranium-234	4.497		2.64	300	pCi/g
BY36-024	748645.05	2082506.09	0.5	2.5	Uranium-235	0.2296		0.120	8	pCi/g
BY36-024	748645.05	2082506.09	0.5	2.5	Uranium-238	4.497		1.49	351	pCi/g
BY36-025	748681.51	2082539.99	0.0	0.5	Copper	41		18.06	40900	mg/kg
BY36-025	748681.51	2082539.99	0.0	0.5	Uranium-234	2.841		2.253	300	pCi/g
BY36-025	748681.51	2082539.99	0.0	0.5	Uranium-235	0.2158		0.0939	8	pCi/g
BY36-025	748681.51	2082539.99	0.0	0.5	Uranium-238	2.841		2	351	pCi/g
BY36-025	748681.51	2082539.99	0.0	0.5	Zinc	80		73.76	307000	mg/kg
BY36-025	748681.51	2082539.99	0.5	2.5	Uranium-235	0.1227		0.120	8	pCi/g
BY36-026	748566.46	2082476.48	0.0	0.5	Acenaphthene	99	35		40800000	ug/kg
BY36-026	748566.46	2082476.48	0.0	0.5	Anthracene	99	27		204000000	ug/kg
BY36-026	748566.46	2082476.48	0.0	0.5	Benzo(a)anthracene	470	28		34900	ug/kg
BY36-026	748566.46	2082476.48	0.0	0.5	Benzo(a)pyrene	480	46		3490	ug/kg
BY36-026	748566.46	2082476.48	0.0	0.5	Benzo(k)fluoranthene	70	37		349000	ug/kg
BY36-026	748566.46	2082476.48	0.0	0.5	Chrysene	580	32		3490000	ug/kg
BY36-026	748566.46	2082476.48	0.0	0.5	Fluoranthene	940	26		27200000	ug/kg
BY36-026	748566.46	2082476.48	0.0	0.5	Fluorene	67	39		40800000	ug/kg
BY36-026	748566.46	2082476.48	0.0	0.5	Indeno(1,2,3-cd)pyrene	280	26		34900	ug/kg
BY36-026	748566.46	2082476.48	0.0	0.5	Pyrene	1100	150		22100000	ug/kg
BY36-026	748566.46	2082476.48	0.5	2.5	Benzo(a)anthracene	57	26		34900	ug/kg
BY36-026	748566.46	2082476.48	0.5	2.5	Chrysene	88	29		3490000	ug/kg
BY36-026	748566.46	2082476.48	0.5	2.5	Pyrene	150	140		22100000	ug/kg
BY36-027	748591.75	2082494.59	0.0	0.5	Uranium-235	0.3003		0.0939	8	pCi/g
BY36-027	748591.75	2082494.59	0.5	1.5	1,1-Dichloroethene	7.98	5.77		17000	ug/kg
BY36-027	748591.75	2082494.59	0.5	1.5	Aluminum	44000		35373.17	228000	mg/kg
BY36-027	748591.75	2082494.59	0.5	1.5	Naphthalene	10.2	5.77		3090000	ug/kg
BY36-027	748591.75	2082494.59	0.5	1.5	Uranium, Total	12		3.04	2750	mg/kg
BY36-027	748591.75	2082494.59	0.5	1.5	Uranium-234	7.264		2.64	300	pCi/g
BY36-027	748591.75	2082494.59	0.5	1.5	Uranium-235	0.3401		0.120	8	pCi/g

Location Code	Actual Northing	Actual Easting	Start Depth (ft)	End Depth (ft)	Analyte	Result	Detection Limit	Background Mean+2SD	WRW AL	Unit
BY36-027	748591.75	2082494.59	0.5	1.5	Uranium-238	7.264		1.49	351	pCi/g
BY36-027	748591.75	2082494.59	0.5	1.5	Xylene	24.7	11.5		2040000	ug/kg
BY36-028	748617.48	2082519.77	0.0	0.5	Aluminum	20000		16902	228000	mg/kg
BY36-028	748617.48	2082519.77	0.0	0.5	Beryllium	1.3		0.966	921	mg/kg
BY36-028	748617.48	2082519.77	0.0	0.5	Chromium	22		16.99	268	mg/kg
BY36-028	748617.48	2082519.77	0.0	0.5	Copper	39		18.06	40900	mg/kg
BY36-028	748617.48	2082519.77	0.0	0.5	Lithium	12		11.55	20400	mg/kg
BY36-028	748617.48	2082519.77	0.0	0.5	Uranium, Total	6.6		5.98	2750	mg/kg
BY36-028	748617.48	2082519.77	0.0	0.5	Uranium-234	6.507		2.253	300	pCi/g
BY36-028	748617.48	2082519.77	0.0	0.5	Uranium-235	0.3095		0.0939	8	pCi/g
BY36-028	748617.48	2082519.77	0.0	0.5	Uranium-238	6.507		2	351	pCi/g
BY36-028	748617.48	2082519.77	0.0	0.5	Zinc	75		73.76	307000	mg/kg
BY36-028	748617.48	2082519.77	0.5	2.5	1,1,1-Trichloroethane	6.63	5.57		79700000	ug/kg
BY36-028	748617.48	2082519.77	0.5	2.5	Copper	47		38.21	40900	mg/kg
BY36-028	748617.48	2082519.77	0.5	2.5	Lead	39		24.97	1000	mg/kg
BY36-028	748617.48	2082519.77	0.5	2.5	Naphthalene	67.8	5.57		3090000	ug/kg
BY36-028	748617.48	2082519.77	0.5	2.5	Tetrachloroethene	66.5	5.57		615000	ug/kg
BY36-028	748617.48	2082519.77	0.5	2.5	Uranium, Total	21		3.04	2750	mg/kg
BY36-028	748617.48	2082519.77	0.5	2.5	Uranium-234	11.11		2.64	300	pCi/g
BY36-028	748617.48	2082519.77	0.5	2.5	Uranium-235	0.3149		0.120	8	pCi/g
BY36-028	748617.48	2082519.77	0.5	2.5	Uranium-238	11.11		1.49	351	pCi/g
BY36-029	748582.83	2082529.48	0.0	0.5	Uranium-234	5.201		2.253	300	pCi/g
BY36-029	748582.83	2082529.48	0.0	0.5	Uranium-235	0.2391		0.0939	8	pCi/g
BY36-029	748582.83	2082529.48	0.0	0.5	Uranium-238	5.201		2	351	pCi/g
BY36-029	748582.83	2082529.48	0.5	1.0	Naphthalene	31.4	5.36		3090000	ug/kg
BY36-029	748582.83	2082529.48	0.5	1.0	Uranium-238	2.043		1.49	351	pCi/g
BY37-017	748921.49	2082337.08	0.0	0.5	Copper	22		18.06	40900	mg/kg
BY37-017	748921.49	2082337.08	0.5	2.5	Uranium-234	4.142		2.64	300	pCi/g
BY37-017	748921.49	2082337.08	0.5	2.5	Uranium-235	0.1777		0.120	8	pCi/g
BY37-017	748921.49	2082337.08	0.5	2.5	Uranium-238	4.142		1.49	351	pCi/g
BY37-018	748951.23	2082355.39	0.0	0.5	Chromium	17		16.99	268	mg/kg

Location Code	Actual Northing	Actual Easting	Start Depth (ft)	End Depth (ft)	Analyte	Result	Detection Limit	Background Mean+2SD	WRW AL	Unit
BY37-018	748951.23	2082355.39	0.0	0.5	Uranium-235	0.1489		0.0939	8	pCi/g
BY37-018	748951.23	2082355.39	0.0	0.5	Zinc	530		73.76	307000	mg/kg
BY37-018	748951.23	2082355.39	0.5	2.5	Uranium-235	0.1434		0.120	8	pCi/g
BY37-018	748951.23	2082355.39	0.5	2.5	Zinc	400		139.1	307000	mg/kg
BY37-019	748912.54	2082372.03	0.0	0.5	Uranium-234	2.802		2.253	300	pCi/g
BY37-019	748912.54	2082372.03	0.0	0.5	Uranium-235	0.1692		0.0939	8	pCi/g
BY37-019	748912.54	2082372.03	0.0	0.5	Uranium-238	2.802		2	351	pCi/g
BY37-019	748912.54	2082372.03	0.5	2.5	Uranium-234	2.717		2.64	300	pCi/g
BY37-019	748912.54	2082372.03	0.5	2.5	Uranium-235	0.2475		0.120	8	pCi/g
BY37-019	748912.54	2082372.03	0.5	2.5	Uranium-238	2.717		1.49	351	pCi/g
BY37-020	748938.37	2082397.08	0.0	0.5	Chromium	17		16.99	268	mg/kg
BY37-020	748938.37	2082397.08	0.0	0.5	Copper	25		18.06	40900	mg/kg
BY37-020	748938.37	2082397.08	0.0	0.5	Zinc	80		73.76	307000	mg/kg
BY37-020	748938.37	2082397.08	0.5	2.5	Uranium-235	0.1726		0.120	8	pCi/g
BY37-020	748938.37	2082397.08	0.5	2.5	Uranium-238	2.28		1.49	351	pCi/g
BY37-021	748929.36	2082432.01	0.5	2.5	Uranium-235	0.1221		0.120	8	pCi/g
BY37-022	748920.53	2082466.92	0.0	0.5	Uranium-238	1.934		1.49	351	pCi/g
BY37-022	748920.53	2082466.92	0.5	2.5	Uranium-235	0.1752		0.120	8	pCi/g
BY37-022	748920.53	2082466.92	0.5	2.5	Uranium-238	2.535		1.49	351	pCi/g
BY37-023	748946.26	2082492.07	0.0	0.5	Chromium	33		16.99	268	mg/kg
BY37-023	748946.26	2082492.07	0.0	0.5	Copper	21		18.06	40900	mg/kg
BY37-023	748946.26	2082492.07	0.0	0.5	Nickel	17		14.91	20400	mg/kg
BY37-023	748946.26	2082492.07	0.0	0.5	Uranium-234	2.619		2.253	300	pCi/g
BY37-023	748946.26	2082492.07	0.0	0.5	Uranium-235	0.1052		0.0939	8	pCi/g
BY37-023	748946.26	2082492.07	0.0	0.5	Uranium-238	2.619		2	351	pCi/g
BY37-023	748946.26	2082492.07	0.5	2.5	Uranium-238	2.142		1.49	351	pCi/g
BY37-024	748914.4	2082521.55	0.0	0.5	Beryllium	1.4		0.966	921	mg/kg
BY37-024	748914.4	2082521.55	0.0	0.5	Chromium	20		16.99	268	mg/kg
BY37-024	748914.4	2082521.55	0.5	2.5	Uranium-234	4.016		2.64	300	pCi/g
BY37-024	748914.4	2082521.55	0.5	2.5	Uranium-235	0.1726		0.120	8	pCi/g
BY37-024	748914.4	2082521.55	0.5	2.5	Uranium-238	4.016		1.49	351	pCi/g

Location Code	Actual Northing	Actual Easting	Start Depth (ft)	End Depth (ft)	Analyte	Result	Detection Limit	Background Mean+2SD	WRW AL	Unit
BY37-025	748937.46	2082526.96	0.0	0.5	Aluminum	20000		16902	228000	mg/kg
BY37-025	748937.46	2082526.96	0.0	0.5	Beryllium	1		0.966	921	mg/kg
BY37-025	748937.46	2082526.96	0.0	0.5	Lithium	12		11.55	20400	mg/kg
BY37-025	748937.46	2082526.96	0.0	0.5	Uranium-234	4.757		2.253	300	pCi/g
BY37-025	748937.46	2082526.96	0.0	0.5	Uranium-235	0.2469		0.0939	8	pCi/g
BY37-025	748937.46	2082526.96	0.0	0.5	Uranium-238	4.757		2	351	pCi/g
BY37-025	748937.46	2082526.96	0.5	2.5	Uranium-234	3.795		2.64	300	pCi/g
BY37-025	748937.46	2082526.96	0.5	2.5	Uranium-235	0.1758		0.120	8	pCi/g
BY37-025	748937.46	2082526.96	0.5	2.5	Uranium-238	3.795		1.49	351	pCi/g
BY37-026	748902.75	2082537.02	0.0	0.5	Aluminum	23000		16902	228000	mg/kg
BY37-026	748902.75	2082537.02	0.0	0.5	Beryllium	1.1		0.966	921	mg/kg
BY37-026	748902.75	2082537.02	0.0	0.5	Chromium	28		16.99	268	mg/kg
BY37-026	748902.75	2082537.02	0.0	0.5	Lead	91		54.62	1000	mg/kg
BY37-026	748902.75	2082537.02	0.0	0.5	Lithium	14		11.55	20400	mg/kg
BY37-026	748902.75	2082537.02	0.0	0.5	Nickel	21		14.91	20400	mg/kg
BY37-026	748902.75	2082537.02	0.0	0.5	Uranium-234	4.659		2.253	300	pCi/g
BY37-026	748902.75	2082537.02	0.0	0.5	Uranium-235	0.192		0.0939	8	pCi/g
BY37-026	748902.75	2082537.02	0.0	0.5	Uranium-238	4.659		2	351	pCi/g
BY37-026	748902.75	2082537.02	0.5	1.6	Naphthalene	19.5	5.31		3090000	ug/kg
BY37-026	748902.75	2082537.02	0.5	1.6	Uranium-234	3.923		2.64	300	pCi/g
BY37-026	748902.75	2082537.02	0.5	1.6	Uranium-235	0.2313		0.120	8	pCi/g
BY37-026	748902.75	2082537.02	0.5	1.6	Uranium-238	3.923		1.49	351	pCi/g
BZ35-004-01	748556.18	2082634.08	0.0	0.5	Uranium-234	3.307		2.253	300	pCi/g
BZ35-004-01	748556.18	2082634.08	0.0	0.5	Uranium-235	0.1321		0.0939	8	pCi/g
BZ35-004-01	748556.18	2082634.08	0.0	0.5	Uranium-238	3.307		2	351	pCi/g
BZ35-004-01	748556.18	2082634.08	0.5	2.5	Uranium-235	0.1492		0.120	8	pCi/g
BZ35-005-01	748418.46	2082543.37	0.0	0.5	Chromium	18		16.99	268	mg/kg
BZ35-005-01	748418.46	2082543.37	0.0	0.5	Copper	25		18.06	40900	mg/kg
BZ35-005-01	748418.46	2082543.37	0.0	0.5	Iron	20000		18037	307000	mg/kg
BZ35-005-01	748418.46	2082543.37	0.0	0.5	Nickel	16		14.91	20400	mg/kg
BZ35-005-01	748418.46	2082543.37	0.0	0.5	Uranium-235	0.1715		0.0939	8	pCi/g

Location Code	Actual Northing	Actual Easting	Start Depth (ft)	End Depth (ft)	Analyte	Result	Detection Limit	Background Mean+2SD	WRW AL	Unit
BZ35-005-01	748418.46	2082543.37	0.5	2.5	Naphthalene	7.51	5.21		3090000	ug/kg
BZ35-005-01	748418.46	2082543.37	0.5	2.5	Uranium-235	0.1258		0.120	8	pCi/g
BZ35-005-01	748418.46	2082543.37	0.5	2.5	Uranium-238	1.755		1.49	351	pCi/g
BZ35-006-01	748444.19	2082568.42	0.0	0.5	Aluminum	18000		16902	228000	mg/kg
BZ35-006-01	748444.19	2082568.42	0.0	0.5	Beryllium	1		0.966	921	mg/kg
BZ35-006-01	748444.19	2082568.42	0.0	0.5	Chromium	17		16.99	268	mg/kg
BZ35-006-01	748444.19	2082568.42	0.0	0.5	Nickel	15		14.91	20400	mg/kg
BZ35-006-01	748444.19	2082568.42	0.0	0.5	Uranium-234	3.851		2.253	300	pCi/g
BZ35-006-01	748444.19	2082568.42	0.0	0.5	Uranium-235	0.182		0.0939	8	pCi/g
BZ35-006-01	748444.19	2082568.42	0.0	0.5	Uranium-238	3.851		2	351	pCi/g
BZ35-006-01	748444.19	2082568.42	0.0	0.5	Zinc	120		73.76	307000	mg/kg
BZ35-006-01	748444.19	2082568.42	0.5	2.5	Cadmium	1.9		1.7	962	mg/kg
BZ35-006-01	748444.19	2082568.42	0.5	2.5	Lead	26		24.97	1000	mg/kg
BZ35-006-01	748444.19	2082568.42	0.5	2.5	Uranium-234	3.606		2.64	300	pCi/g
BZ35-006-01	748444.19	2082568.42	0.5	2.5	Uranium-235	0.2386		0.120	8	pCi/g
BZ35-006-01	748444.19	2082568.42	0.5	2.5	Uranium-238	3.606		1.49	351	pCi/g
BZ35-006-01	748444.19	2082568.42	0.5	2.5	Zinc	170		139.1	307000	mg/kg
BZ35-007-01	748383.75	2082553.04	0.0	0.5	Uranium-235	0.1278		0.0939	8	pCi/g
BZ35-007-01	748383.75	2082553.04	0.5	2.5	Manganese	940		901.62	3480	mg/kg
BZ35-007-01	748383.75	2082553.04	0.5	2.5	Uranium-234	4.22		2.64	300	pCi/g
BZ35-007-01	748383.75	2082553.04	0.5	2.5	Uranium-235	0.2928		0.120	8	pCi/g
BZ35-007-01	748383.75	2082553.04	0.5	2.5	Uranium-238	4.22		1.49	351	pCi/g
BZ35-007-01	748383.75	2082553.04	2.5	4.5	Uranium-234	3.607		2.64	300	pCi/g
BZ35-007-01	748383.75	2082553.04	2.5	4.5	Uranium-235	0.2162		0.120	8	pCi/g
BZ35-007-01	748383.75	2082553.04	2.5	4.5	Uranium-238	3.607		1.49	351	pCi/g
BZ35-007-01	748383.75	2082553.04	4.5	6.5	Uranium-235	0.2854		0.120	8	pCi/g
BZ35-007-01	748383.75	2082553.04	4.5	6.5	Uranium-238	2.062		1.49	351	pCi/g
BZ35-007-01	748383.75	2082553.04	8.5	10.5	Uranium-235	0.1648		0.120	8	pCi/g
BZ35-008-01	748409.6	2082578.16	0.0	0.5	Copper	20		18.06	40900	mg/kg
BZ35-008-01	748409.6	2082578.16	0.0	0.5	Uranium-234	3.958		2.253	300	pCi/g
BZ35-008-01	748409.6	2082578.16	0.0	0.5	Uranium-235	0.1773		0.0939	8	pCi/g

Location Code	Actual Northing	Actual Easting	Start Depth (ft)	End Depth (ft)	Analyte	Result	Detection Limit	Background Mean+2SD	WRW AL	Unit
BZ35-008-01	748409.6	2082578.16	0.0	0.5	Uranium-238	3.958		2	351	pCi/g
BZ35-008-01	748409.6	2082578.16	0.5	2.5	Cadmium	2.9		1.7	962	mg/kg
BZ35-008-01	748409.6	2082578.16	0.5	2.5	Lead	26		24.97	1000	mg/kg
BZ35-008-01	748409.6	2082578.16	0.5	2.5	Uranium-234	4.944		2.64	300	pCi/g
BZ35-008-01	748409.6	2082578.16	0.5	2.5	Uranium-235	0.2483		0.120	8	pCi/g
BZ35-008-01	748409.6	2082578.16	0.5	2.5	Uranium-238	4.944		1.49	351	pCi/g
BZ35-008-01	748409.6	2082578.16	1.5	6.5	Uranium-235	0.1396		0.120	8	pCi/g
BZ35-009	748435.31	2082603.33	0.0	0.5	Barium	290		289.38	26400	mg/kg
BZ35-009	748435.31	2082603.33	0.0	0.5	Chromium	77		68.27	268	mg/kg
BZ35-009	748435.31	2082603.33	0.0	0.5	Uranium-234	3.311		2.64	300	pCi/g
BZ35-009	748435.31	2082603.33	0.0	0.5	Uranium-238	3.311		1.49	351	pCi/g
BZ35-009	748435.31	2082603.33	0.5	2.5	Uranium-234	3.729		2.64	300	pCi/g
BZ35-009	748435.31	2082603.33	0.5	2.5	Uranium-235	0.1789		0.120	8	pCi/g
BZ35-009	748435.31	2082603.33	0.5	2.5	Uranium-238	3.729		1.49	351	pCi/g
BZ35-009	748435.31	2082603.33	2.5	4.5	Uranium-234	3.435		2.64	300	pCi/g
BZ35-009	748435.31	2082603.33	2.5	4.5	Uranium-235	0.1385		0.120	8	pCi/g
BZ35-009	748435.31	2082603.33	2.5	4.5	Uranium-238	3.435		1.49	351	pCi/g
BZ35-009	748435.31	2082603.33	4.5	6.5	Uranium-234	3.657		2.64	300	pCi/g
BZ35-009	748435.31	2082603.33	4.5	6.5	Uranium-235	0.1732		0.120	8	pCi/g
BZ35-009	748435.31	2082603.33	4.5	6.5	Uranium-238	3.657		1.49	351	pCi/g
BZ35-009	748435.31	2082603.33	8.5	10.5	Uranium-235	0.1623		0.120	8	pCi/g
BZ35-010-02	748461.1	2082628.47	0.0	0.5	Iron	20000		18037	307000	mg/kg
BZ35-010-02	748461.1	2082628.47	0.0	0.5	Uranium-234	4.177		2.253	300	pCi/g
BZ35-010-02	748461.1	2082628.47	0.0	0.5	Uranium-235	0.2286		0.0939	8	pCi/g
BZ35-010-02	748461.1	2082628.47	0.0	0.5	Uranium-238	4.177		2	351	pCi/g
BZ35-010-02	748461.1	2082628.47	0.5	2.5	Uranium-234	3.46		2.64	300	pCi/g
BZ35-010-02	748461.1	2082628.47	0.5	2.5	Uranium-235	0.1332		0.120	8	pCi/g
BZ35-010-02	748461.1	2082628.47	0.5	2.5	Uranium-238	3.46		1.49	351	pCi/g
BZ35-010-02	748461.1	2082628.47	2.5	4.5	Aluminum	41000		35373.17	228000	mg/kg
BZ35-010-02	748461.1	2082628.47	2.5	4.5	Uranium-235	0.1409		0.120	8	pCi/g
BZ36-006	748729.52	2082585.38	0.0	0.5	Uranium-235	0.1926		0.120	8	pCi/g

Location Code	Actual Northing	Actual Easting	Start Depth (ft)	End Depth (ft)	Analyte	Result	Detection Limit	Background Mean+2SD	WRW AL	Unit
BZ36-007	748755.29	2082615.86	0.0	0.5	Chromium	29		16.99	268	mg/kg
BZ36-007	748755.29	2082615.86	0.0	0.5	Copper	26		18.06	40900	mg/kg
BZ36-007	748755.29	2082615.86	0.0	0.5	Tin	6.7		2.9	613000	mg/kg
BZ36-007	748755.29	2082615.86	0.0	0.5	Uranium-234	4.89		2.253	300	pCi/g
BZ36-007	748755.29	2082615.86	0.0	0.5	Uranium-235	0.1956		0.0939	8	pCi/g
BZ36-007	748755.29	2082615.86	0.0	0.5	Uranium-238	4.89		2	351	pCi/g
BZ36-007	748755.29	2082615.86	0.0	0.5	Zinc	240		73.76	307000	mg/kg
BZ36-007	748755.29	2082615.86	0.5	2.5	Uranium, Total	3.5		3.04	2750	mg/kg
BZ36-007	748755.29	2082615.86	0.5	2.5	Uranium-234	4.259		2.64	300	pCi/g
BZ36-007	748755.29	2082615.86	0.5	2.5	Uranium-235	0.2362		0.120	8	pCi/g
BZ36-007	748755.29	2082615.86	0.5	2.5	Uranium-238	4.259		1.49	351	pCi/g
BZ36-008	748643.25	2082544.85	1.0	3.0	Arsenic	20		13.14	22.2	mg/kg
BZ36-008	748643.25	2082544.85	1.0	3.0	Lead	37		24.97	1000	mg/kg
BZ36-008	748643.25	2082544.85	1.0	3.0	Uranium-235	0.152		0.120	8	pCi/g
BZ36-009	748669.07	2082569.99	0.0	0.5	Copper	29		18.06	40900	mg/kg
BZ36-009	748669.07	2082569.99	0.0	0.5	Iron	25000		18037	307000	mg/kg
BZ36-009	748669.07	2082569.99	0.0	0.5	Manganese	520		365.08	3480	mg/kg
BZ36-009	748669.07	2082569.99	0.0	0.5	Uranium-235	0.2338		0.0939	8	pCi/g
BZ36-009	748669.07	2082569.99	0.0	0.5	Zinc	80		73.76	307000	mg/kg
BZ36-009	748669.07	2082569.99	0.5	2.5	Uranium-234	4.294		2.64	300	pCi/g
BZ36-009	748669.07	2082569.99	0.5	2.5	Uranium-235	0.2698		0.120	8	pCi/g
BZ36-009	748669.07	2082569.99	0.5	2.5	Uranium-238	4.294		1.49	351	pCi/g
BZ36-010	748694.81	2082595.1	0.0	0.5	Uranium-234	5.08		2.253	300	pCi/g
BZ36-010	748694.81	2082595.1	0.0	0.5	Uranium-235	0.2488		0.0939	8	pCi/g
BZ36-010	748694.81	2082595.1	0.0	0.5	Uranium-238	5.08		2	351	pCi/g
BZ36-010	748694.81	2082595.1	0.5	2.5	Uranium-234	3.365		2.64	300	pCi/g
BZ36-010	748694.81	2082595.1	0.5	2.5	Uranium-235	0.2347		0.120	8	pCi/g
BZ36-010	748694.81	2082595.1	0.5	2.5	Uranium-238	3.365		1.49	351	pCi/g
BZ36-011	748720.59	2082620.33	0.0	0.5	Beryllium	5.4		0.966	921	mg/kg
BZ36-011	748720.59	2082620.33	0.0	0.5	Chromium	22		16.99	268	mg/kg
BZ36-011	748720.59	2082620.33	0.0	0.5	Uranium-238	2.176		2	351	pCi/g

Location Code	Actual Northing	Actual Easting	Start Depth (ft)	End Depth (ft)	Analyte	Result	Detection Limit	Background Mean+2SD	WRW AL	Unit
BZ36-011	748720.59	2082620.33	0.0	0.5	Zinc	120		73.76	307000	mg/kg
BZ36-011	748720.59	2082620.33	0.5	2.0	Uranium-238	2.441		1.49	351	pCi/g
BZ36-012	748746.38	2082645.46	0.0	0.5	Aluminum	39000		16902	228000	mg/kg
BZ36-012	748746.38	2082645.46	0.0	0.5	Beryllium	1.8		0.966	921	mg/kg
BZ36-012	748746.38	2082645.46	0.0	0.5	Chromium	35		16.99	268	mg/kg
BZ36-012	748746.38	2082645.46	0.0	0.5	Iron	22000		18037	307000	mg/kg
BZ36-012	748746.38	2082645.46	0.0	0.5	Lithium	43		11.55	20400	mg/kg
BZ36-012	748746.38	2082645.46	0.0	0.5	Nickel	26		14.91	20400	mg/kg
BZ36-012	748746.38	2082645.46	0.0	0.5	Uranium-234	2.991		2.253	300	pCi/g
BZ36-012	748746.38	2082645.46	0.0	0.5	Uranium-235	0.1482		0.0939	8	pCi/g
BZ36-012	748746.38	2082645.46	0.0	0.5	Uranium-238	2.991		2	351	pCi/g
BZ36-012	748746.38	2082645.46	0.0	0.5	Vanadium	57		45.59	7150	mg/kg
BZ36-012	**748746.38**	**2082645.46**	**0.5**	**2.5**	**Arsenic**	**24**		**13.14**	**22.2**	**mg/kg**
BZ36-012	748746.38	2082645.46	0.5	2.5	Vanadium	110		88.49	7150	mg/kg
BZ36-013	748608.61	2082554.57	0.0	0.5	Uranium-235	0.2024		0.120	8	pCi/g
BZ36-013	748608.61	2082554.57	0.0	0.5	Uranium-238	1.782		1.49	351	pCi/g
BZ36-013	748608.61	2082554.57	0.5	2.5	Aluminum	39000		35373.17	228000	mg/kg
BZ36-013	748608.61	2082554.57	0.5	2.5	Uranium-234	2.725		2.64	300	pCi/g
BZ36-013	748608.61	2082554.57	0.5	2.5	Uranium-238	2.725		1.49	351	pCi/g
BZ36-014	748634.48	2082579.78	0.0	0.5	Copper	19		18.06	40900	mg/kg
BZ36-014	748634.48	2082579.78	0.0	0.5	Uranium-235	0.1821		0.0939	8	pCi/g
BZ36-014	748634.48	2082579.78	0.5	2.5	Aluminum	43000		35373.17	228000	mg/kg
BZ36-014	748634.48	2082579.78	0.5	2.5	Uranium-235	0.1627		0.120	8	pCi/g
BZ36-015	748660.12	2082604.94	0.0	0.5	Antimony	0.67		0.470	409	mg/kg
BZ36-015	748660.12	2082604.94	0.0	0.5	Chromium	22		16.99	268	mg/kg
BZ36-015	748660.12	2082604.94	0.0	0.5	Copper	66		18.06	40900	mg/kg
BZ36-015	748660.12	2082604.94	0.0	0.5	Iron	20000		18037	307000	mg/kg
BZ36-015	748660.12	2082604.94	0.0	0.5	Nickel	31		14.91	20400	mg/kg
BZ36-015	748660.12	2082604.94	0.0	0.5	Tin	7.4		2.9	613000	mg/kg
BZ36-015	748660.12	2082604.94	0.0	0.5	Uranium-234	5.101		2.253	300	pCi/g
BZ36-015	748660.12	2082604.94	0.0	0.5	Uranium-235	0.2939		0.0939	8	pCi/g

Location Code	Actual Northing	Actual Easting	Start Depth (ft)	End Depth (ft)	Analyte	Result	Detection Limit	Background Mean+2SD	WRW AL	Unit
BZ36-015	748660.12	2082604.94	0.0	0.5	Uranium-238	5.101		2	351	pCi/g
BZ36-015	748660.12	2082604.94	0.0	0.5	Zinc	87		73.76	307000	mg/kg
BZ36-015	748660.12	2082604.94	0.5	2.5	Uranium-234	5.434		2.64	300	pCi/g
BZ36-015	748660.12	2082604.94	0.5	2.5	Uranium-235	0.2277		0.120	8	pCi/g
BZ36-015	748660.12	2082604.94	0.5	2.5	Uranium-238	5.434		1.49	351	pCi/g
BZ36-016	748685.89	2082630.05	0.0	0.5	Chromium	35		16.99	268	mg/kg
BZ36-016	748685.89	2082630.05	0.0	0.5	Copper	32		18.06	40900	mg/kg
BZ36-016	748685.89	2082630.05	0.0	0.5	Uranium, Total	11		5.98	2750	mg/kg
BZ36-016	748685.89	2082630.05	0.0	0.5	Uranium-234	6.039		2.253	300	pCi/g
BZ36-016	748685.89	2082630.05	0.0	0.5	Uranium-235	0.2884		0.0939	8	pCi/g
BZ36-016	748685.89	2082630.05	0.0	0.5	Uranium-238	6.039		2	351	pCi/g
BZ36-016	748685.89	2082630.05	0.0	0.5	Zinc	370		73.76	307000	mg/kg
BZ36-016	748685.89	2082630.05	0.5	2.5	Copper	39		38.21	40900	mg/kg
BZ36-016	748685.89	2082630.05	0.5	2.5	Lead	44		24.97	1000	mg/kg
BZ36-016	748685.89	2082630.05	0.5	2.5	Uranium, Total	9.3		3.04	2750	mg/kg
BZ36-016	748685.89	2082630.05	0.5	2.5	Uranium-234	4.64		2.64	300	pCi/g
BZ36-016	748685.89	2082630.05	0.5	2.5	Uranium-235	0.1381		0.120	8	pCi/g
BZ36-016	748685.89	2082630.05	0.5	2.5	Uranium-238	4.64		1.49	351	pCi/g
BZ36-016	748685.89	2082630.05	0.5	2.5	Zinc	340		139.1	307000	mg/kg
BZ36-017	748711.7	2082655.12	0.0	0.5	Aluminum	26000		16902	228000	mg/kg
BZ36-017	748711.7	2082655.12	0.0	0.5	Beryllium	1.3		0.966	921	mg/kg
BZ36-017	748711.7	2082655.12	0.0	0.5	Chromium	23		16.99	268	mg/kg
BZ36-017	748711.7	2082655.12	0.0	0.5	Lithium	17		11.55	20400	mg/kg
BZ36-017	748711.7	2082655.12	0.0	0.5	Nickel	17		14.91	20400	mg/kg
BZ36-017	748711.7	2082655.12	0.0	0.5	Vanadium	47		45.59	7150	mg/kg
BZ36-017	748711.7	2082655.12	0.5	2.5	Acetone	160	124		102000000	ug/kg
BZ36-017	748711.7	2082655.12	0.5	2.5	Aluminum	39000		35373.17	228000	mg/kg
BZ36-018	748573.95	2082564.36	0.0	0.5	Uranium-234	4.787		2.253	300	pCi/g
BZ36-018	748573.95	2082564.36	0.0	0.5	Uranium-235	0.2238		0.0939	8	pCi/g
BZ36-018	748573.95	2082564.36	0.0	0.5	Uranium-238	4.787		2	351	pCi/g
BZ36-018	748573.95	2082564.36	0.5	2.5	Uranium-234	3.815		2.64	300	pCi/g

Location Code	Actual Northing	Actual Easting	Start Depth (ft)	End Depth (ft)	Analyte	Result	Detection Limit	Background Mean+2SD	WRW AL	Unit
BZ36-018	748573.95	2082564.36	0.5	2.5	Uranium-235	0.2529		0.120	8	pCi/g
BZ36-018	748573.95	2082564.36	0.5	2.5	Uranium-238	3.815		1.49	351	pCi/g
BZ36-019	748599.79	2082589.5	0.0	0.5	Chromium	23		16.99	268	mg/kg
BZ36-019	748599.79	2082589.5	0.0	0.5	Nickel	15		14.91	20400	mg/kg
BZ36-019	748599.79	2082589.5	0.5	2.5	Uranium-235	0.1757		0.120	8	pCi/g
BZ36-019	748599.79	2082589.5	0.5	2.5	Uranium-238	1.872		1.49	351	pCi/g
BZ36-020	748625.48	2082614.61	0.0	0.5	Beryllium	1.9		0.966	921	mg/kg
BZ36-020	748625.48	2082614.61	0.0	0.5	Chromium	19		16.99	268	mg/kg
BZ36-020	748625.48	2082614.61	0.0	0.5	Lead	66		54.62	1000	mg/kg
BZ36-020	748625.48	2082614.61	0.0	0.5	Uranium, Total	35		5.98	2750	mg/kg
BZ36-020	748625.48	2082614.61	0.0	0.5	Uranium-234	4.746		2.253	300	pCi/g
BZ36-020	748625.48	2082614.61	0.0	0.5	Uranium-235	0.2294		0.0939	8	pCi/g
BZ36-020	748625.48	2082614.61	0.0	0.5	Uranium-238	4.746		2	351	pCi/g
BZ36-020	748625.48	2082614.61	0.0	0.5	Zinc	350		73.76	307000	mg/kg
BZ36-020	748625.48	2082614.61	0.5	2.5	Uranium-234	4.523		2.64	300	pCi/g
BZ36-020	748625.48	2082614.61	0.5	2.5	Uranium-235	0.2003		0.120	8	pCi/g
BZ36-020	748625.48	2082614.61	0.5	2.5	Uranium-238	4.523		1.49	351	pCi/g
BZ36-021	748651.28	2082639.71	0.0	0.5	Aluminum	23000		16902	228000	mg/kg
BZ36-021	748651.28	2082639.71	0.0	0.5	Beryllium	1.5		0.966	921	mg/kg
BZ36-021	748651.28	2082639.71	0.0	0.5	Cadmium	2.4		1.612	962	mg/kg
BZ36-021	748651.28	2082639.71	0.0	0.5	Chromium	27		16.99	268	mg/kg
BZ36-021	748651.28	2082639.71	0.0	0.5	Lithium	13		11.55	20400	mg/kg
BZ36-021	748651.28	2082639.71	0.0	0.5	Nickel	19		14.91	20400	mg/kg
BZ36-021	748651.28	2082639.71	0.0	0.5	Uranium-234	5.612		2.253	300	pCi/g
BZ36-021	748651.28	2082639.71	0.0	0.5	Uranium-235	0.1592		0.0939	8	pCi/g
BZ36-021	748651.28	2082639.71	0.0	0.5	Uranium-238	5.612		2	351	pCi/g
BZ36-021	748651.28	2082639.71	0.0	0.5	Vanadium	46		45.59	7150	mg/kg
BZ36-021	748651.28	2082639.71	0.0	0.5	Zinc	190		73.76	307000	mg/kg
BZ36-021	748651.28	2082639.71	0.5	2.5	Cadmium	3.7		1.7	962	mg/kg
BZ36-021	748651.28	2082639.71	0.5	2.5	Lead	38		24.97	1000	mg/kg
BZ36-021	748651.28	2082639.71	0.5	2.5	Naphthalene	34.1	5.97		3090000	ug/kg

Location Code	Actual Northing	Actual Easting	Start Depth (ft)	End Depth (ft)	Analyte	Result	Detection Limit	Background Mean+2SD	WRW AL	Unit
BZ36-021	748651.28	2082639.71	0.5	2.5	Uranium, Total	4.6		3.04	2750	mg/kg
BZ36-021	748651.28	2082639.71	0.5	2.5	Uranium-234	5.676		2.64	300	pCi/g
BZ36-021	748651.28	2082639.71	0.5	2.5	Uranium-235	0.2104		0.120	8	pCi/g
BZ36-021	748651.28	2082639.71	0.5	2.5	Uranium-238	5.676		1.49	351	pCi/g
BZ36-021	748651.28	2082639.71	0.5	2.5	Zinc	260		139.1	307000	mg/kg
BZ36-022	748677.07	2082664.93	0.0	0.5	Uranium-235	0.2915		0.0939	8	pCi/g
BZ36-022	748677.07	2082664.93	0.5	2.5	Uranium-235	0.1279		0.120	8	pCi/g
BZ36-022	748677.07	2082664.93	0.5	2.5	Uranium-238	1.844		1.49	351	pCi/g
BZ36-023	748565.08	2082599.29	0.0	0.5	Uranium-234	4.539		2.253	300	pCi/g
BZ36-023	748565.08	2082599.29	0.0	0.5	Uranium-235	0.2537		0.0939	8	pCi/g
BZ36-023	748565.08	2082599.29	0.0	0.5	Uranium-238	4.539		2	351	pCi/g
BZ36-023	748565.08	2082599.29	0.5	2.5	Uranium-238	1.676		1.49	351	pCi/g
BZ36-024	748590.81	2082624.35	0.0	0.5	Aluminum	23000		16902	228000	mg/kg
BZ36-024	748590.81	2082624.35	0.0	0.5	Beryllium	1.4		0.966	921	mg/kg
BZ36-024	748590.81	2082624.35	0.0	0.5	Chromium	32		16.99	268	mg/kg
BZ36-024	748590.81	2082624.35	0.0	0.5	Nickel	20		14.91	20400	mg/kg
BZ36-024	748590.81	2082624.35	0.0	0.5	Uranium-235	0.1033		0.0939	8	pCi/g
BZ36-024	748590.81	2082624.35	0.0	0.5	Zinc	75		73.76	307000	mg/kg
BZ36-024	748590.81	2082624.35	0.5	2.5	Uranium-235	0.1909		0.120	8	pCi/g
BZ36-024	748590.81	2082624.35	0.5	2.5	Uranium-238	1.665		1.49	351	pCi/g
BZ36-024	748590.81	2082624.35	0.5	2.5	Zinc	150		139.1	307000	mg/kg
BZ36-025	748616.67	2082649.54	0.0	0.5	Beryllium	1.2		0.966	921	mg/kg
BZ36-025	748616.67	2082649.54	0.0	0.5	Chromium	17		16.99	268	mg/kg
BZ36-025	748616.67	2082649.54	0.0	0.5	Copper	19		18.06	40900	mg/kg
BZ36-025	748616.67	2082649.54	0.0	0.5	Plutonium-239/240	0.37		0.0660	50	pCi/g
BZ36-025	748616.67	2082649.54	0.0	0.5	Zinc	83		73.76	307000	mg/kg
BZ36-026	748582	2082659.19	0.0	0.5	Beryllium	1.2		0.966	921	mg/kg
BZ36-026	748582	2082659.19	0.0	0.5	Manganese	370		365.08	3480	mg/kg
BZ36-026	748582	2082659.19	0.0	0.5	Strontium	51		48.94	613000	mg/kg
BZ36-026	748582	2082659.19	0.0	0.5	Zinc	210		73.76	307000	mg/kg
BZ36-026	748582	2082659.19	0.5	2.2	Lead	59		24.97	1000	mg/kg

Location Code	Actual Northing	Actual Easting	Start Depth (ft)	End Depth (ft)	Analyte	Result	Detection Limit	Background Mean+2SD	WRW AL	Unit
BZ36-026	748582	2082659.19	0.5	2.2	Uranium-238	1.827		1.49	351	pCi/g
BZ36-026	748582	2082659.19	0.5	2.2	Zinc	350		139.1	307000	mg/kg
BZ37-003	748928.52	2082561.85	0.5	1.0	Uranium-235	0.1205		0.0939	8	pCi/g
BZ37-003	748928.52	2082561.85	0.5	2.5	Uranium-235	0.1382		0.120	8	pCi/g
BZ37-003	748928.52	2082561.85	0.5	2.5	Uranium-238	1.78		1.49	351	pCi/g
BZ37-004	748949.92	2082587.16	0.0	0.5	Uranium-234	4.804		2.253	300	pCi/g
BZ37-004	748949.92	2082587.16	0.0	0.5	Uranium-235	0.2315		0.0939	8	pCi/g
BZ37-004	748949.92	2082587.16	0.0	0.5	Uranium-238	4.804		2	351	pCi/g
BZ37-004	748949.92	2082587.16	0.0	0.5	Zinc	96		73.76	307000	mg/kg
BZ37-004	748949.92	2082587.16	0.5	2.5	Uranium-238	1.509		1.49	351	pCi/g
BZ37-005	748893.94	2082571.67	0.5	1.5	Copper	48		38.21	40900	mg/kg
BZ37-005	748893.94	2082571.67	1.0	1.5	Uranium-234	2.693		2.253	300	pCi/g
BZ37-005	748893.94	2082571.67	1.0	1.5	Uranium-235	0.1877		0.0939	8	pCi/g
BZ37-005	748893.94	2082571.67	0.5	1.5	Uranium-238	1.737		1.49	351	pCi/g
BZ37-005	748893.94	2082571.67	1.0	1.5	Uranium-238	2.693		2	351	pCi/g
BZ37-006	748913.23	2082591.55	0.0	0.5	Uranium-234	4.492		2.253	300	pCi/g
BZ37-006	748913.23	2082591.55	0.0	0.5	Uranium-235	0.2256		0.0939	8	pCi/g
BZ37-006	748913.23	2082591.55	0.0	0.5	Uranium-238	4.492		2	351	pCi/g
BZ37-006	748913.23	2082591.55	0.5	2.5	Uranium-234	5.119		2.64	300	pCi/g
BZ37-006	748913.23	2082591.55	0.5	2.5	Uranium-235	0.2856		0.120	8	pCi/g
BZ37-006	748913.23	2082591.55	0.5	2.5	Uranium-238	5.119		1.49	351	pCi/g
BZ37-007	748945.43	2082621.83	0.0	0.5	Copper	79		18.06	40900	mg/kg
BZ37-007	748945.43	2082621.83	0.0	0.5	Zinc	100		73.76	307000	mg/kg
BZ37-007	748945.43	2082621.83	0.5	2.5	Ethylbenzene	10.5	5.82		4250000	ug/kg
BZ37-007	748945.43	2082621.83	0.5	2.5	Naphthalene	27.2	5.82		3090000	ug/kg
BZ37-007	748945.43	2082621.83	0.5	2.5	Uranium-234	4.727		2.64	300	pCi/g
BZ37-007	748945.43	2082621.83	0.5	2.5	Uranium-235	0.2086		0.120	8	pCi/g
BZ37-007	748945.43	2082621.83	0.5	2.5	Uranium-238	4.727		1.49	351	pCi/g
BZ37-007	748945.43	2082621.83	0.5	2.5	Xylene	90.2	11.6		2040000	ug/kg
BZ37-007	748945.43	2082621.83	6.5	8.5	Americium-241	0.1472		0.0200	76	pCi/g
BZ37-007	748945.43	2082621.83	6.5	8.5	Plutonium-239/240	0.839		0.0200	50	pCi/g

Location Code	Actual Northing	Actual Easting	Start Depth (ft)	End Depth (ft)	Analyte	Result	Detection Limit	Background Mean+2SD	WRW AL	Unit
BZ37-007	748945.43	2082621.83	6.5	8.5	Uranium-238	1.644		1.49	351	pCi/g
BZ37-007	748945.43	2082621.83	8.5	10.5	Uranium-234	4.611		2.64	300	pCi/g
BZ37-007	748945.43	2082621.83	8.5	10.5	Uranium-235	0.2073		0.120	8	pCi/g
BZ37-007	748945.43	2082621.83	8.5	10.5	Uranium-238	4.611		1.49	351	pCi/g
BZ37-008	748859.24	2082581.27	0.0	0.5	Uranium-234	4.568		2.253	300	pCi/g
BZ37-008	748859.24	2082581.27	0.0	0.5	Uranium-235	0.1526		0.0939	8	pCi/g
BZ37-008	748859.24	2082581.27	0.0	0.5	Uranium-238	4.568		2	351	pCi/g
BZ37-008	748859.24	2082581.27	0.5	2.5	Uranium-234	3.648		2.64	300	pCi/g
BZ37-008	748859.24	2082581.27	0.5	2.5	Uranium-235	0.2134		0.120	8	pCi/g
BZ37-008	748859.24	2082581.27	0.5	2.5	Uranium-238	3.648		1.49	351	pCi/g
BZ37-009	748884.95	2082606.46	0.0	0.5	Uranium-234	5.041		2.253	300	pCi/g
BZ37-009	748884.95	2082606.46	0.0	0.5	Uranium-235	0.2574		0.0939	8	pCi/g
BZ37-009	748884.95	2082606.46	0.0	0.5	Uranium-238	5.041		2	351	pCi/g
BZ37-009	748884.95	2082606.46	0.5	2.5	Uranium-234	3.939		2.64	300	pCi/g
BZ37-009	748884.95	2082606.46	0.5	2.5	Uranium-235	0.2462		0.120	8	pCi/g
BZ37-009	748884.95	2082606.46	0.5	2.5	Uranium-238	3.939		1.49	351	pCi/g
BZ37-010	748910.72	2082631.64	0.0	0.5	Copper	23		18.06	40900	mg/kg
BZ37-010	748910.72	2082631.64	0.0	0.5	Zinc	86		73.76	307000	mg/kg
BZ37-010	748910.72	2082631.64	0.5	2.5	Uranium, Total	3.3		3.04	2750	mg/kg
BZ37-010	748910.72	2082631.64	0.5	2.5	Uranium-234	4.361		2.64	300	pCi/g
BZ37-010	748910.72	2082631.64	0.5	2.5	Uranium-235	0.1654		0.120	8	pCi/g
BZ37-010	748910.72	2082631.64	0.5	2.5	Uranium-238	4.361		1.49	351	pCi/g
BZ37-011	748936.49	2082656.74	0.5	2.5	Aluminum	49000		35373.17	228000	mg/kg
BZ37-011	748936.49	2082656.74	0.5	2.5	Arsenic	15		13.14	22.2	mg/kg
BZ37-011	748936.49	2082656.74	0.5	2.5	Uranium, Total	3.3		3.04	2750	mg/kg
BZ37-011	748936.49	2082656.74	0.5	2.5	Uranium-234	5.059		2.64	300	pCi/g
BZ37-011	748936.49	2082656.74	0.5	2.5	Uranium-235	0.2864		0.120	8	pCi/g
BZ37-011	748936.49	2082656.74	0.5	2.5	Uranium-238	5.059		1.49	351	pCi/g
BZ37-011	748936.49	2082656.74	2.5	4.5	Uranium-238	1.873		1.49	351	pCi/g
BZ37-011	748936.49	2082656.74	6.5	8.5	Uranium-235	0.1302		0.120	8	pCi/g
BZ37-011	748936.49	2082656.74	6.5	8.5	Uranium-238	1.532		1.49	351	pCi/g

Location Code	Actual Northing	Actual Easting	Start Depth (ft)	End Depth (ft)	Analyte	Result	Detection Limit	Background Mean+2SD	WRW AL	Unit
BZ37-012	748824.55	2082591.04	0.0	0.5	Uranium-235	0.2132		0.120	8	pCi/g
BZ37-012	748824.55	2082591.04	0.0	0.5	Uranium-238	2.121		1.49	351	pCi/g
BZ37-012	748824.55	2082591.04	0.5	2.0	Uranium-234	4.882		2.64	300	pCi/g
BZ37-012	748824.55	2082591.04	0.5	2.0	Uranium-235	0.2066		0.120	8	pCi/g
BZ37-012	748824.55	2082591.04	0.5	2.0	Uranium-238	4.882		1.49	351	pCi/g
BZ37-013	748850.58	2082621.35	0.0	0.5	Uranium-234	4.84		2.253	300	pCi/g
BZ37-013	748850.58	2082621.35	0.0	0.5	Uranium-235	0.2378		0.0939	8	pCi/g
BZ37-013	748850.58	2082621.35	0.0	0.5	Uranium-238	4.84		2	351	pCi/g
BZ37-013	748850.58	2082621.35	0.0	0.5	Zinc	99		73.76	307000	mg/kg
BZ37-013	748850.58	2082621.35	0.5	2.5	Lead	37		24.97	1000	mg/kg
BZ37-013	748850.58	2082621.35	0.5	2.5	Uranium, Total	8.3		3.04	2750	mg/kg
BZ37-013	748850.58	2082621.35	0.5	2.5	Uranium-234	5.617		2.64	300	pCi/g
BZ37-013	748850.58	2082621.35	0.5	2.5	Uranium-235	0.235		0.120	8	pCi/g
BZ37-013	748850.58	2082621.35	0.5	2.5	Uranium-238	5.617		1.49	351	pCi/g
BZ37-014	748876.03	2082641.33	0.0	0.5	Aluminum	21000		16902	228000	mg/kg
BZ37-014	748876.03	2082641.33	0.0	0.5	Beryllium	1.2		0.966	921	mg/kg
BZ37-014	748876.03	2082641.33	0.0	0.5	Chromium	21		16.99	268	mg/kg
BZ37-014	748876.03	2082641.33	0.0	0.5	Copper	22		18.06	40900	mg/kg
BZ37-014	748876.03	2082641.33	0.0	0.5	Lithium	14		11.55	20400	mg/kg
BZ37-014	748876.03	2082641.33	0.0	0.5	Nickel	17		14.91	20400	mg/kg
BZ37-014	748876.03	2082641.33	0.0	0.5	Uranium-235	0.1356		0.0939	8	pCi/g
BZ37-014	748876.03	2082641.33	0.0	0.5	Vanadium	47		45.59	7150	mg/kg
BZ37-014	748876.03	2082641.33	0.0	0.5	Zinc	81		73.76	307000	mg/kg
BZ37-014	748876.03	2082641.33	0.5	2.5	Aluminum	41000		35373.17	228000	mg/kg
BZ37-014	748876.03	2082641.33	0.5	2.5	Arsenic	14		13.14	22.2	mg/kg
BZ37-015	748901.85	2082666.43	0.0	0.5	Uranium-234	3.575		2.253	300	pCi/g
BZ37-015	748901.85	2082666.43	0.0	0.5	Uranium-235	0.2321		0.0939	8	pCi/g
BZ37-015	748901.85	2082666.43	0.0	0.5	Uranium-238	3.575		2	351	pCi/g
BZ37-015	748901.85	2082666.43	0.5	2.5	Aluminum	44000		35373.17	228000	mg/kg
BZ37-016	748789.84	2082600.85	0.0	0.5	Uranium-238	1.834		1.49	351	pCi/g
BZ37-016	748789.84	2082600.85	0.5	2.5	Naphthalene	7.33	5.11		3090000	ug/kg

Location Code	Actual Northing	Actual Easting	Start Depth (ft)	End Depth (ft)	Analyte	Result	Detection Limit	Background Mean+2SD	WRW AL	Unit
BZ37-017	748815.67	2082626	0.0	0.5	Aluminum	17000		16902	228000	mg/kg
BZ37-017	748815.67	2082626	0.0	0.5	Beryllium	1.5		0.966	921	mg/kg
BZ37-017	748815.67	2082626	0.0	0.5	Chromium	79		16.99	268	mg/kg
BZ37-017	748815.67	2082626	0.0	0.5	Copper	21		18.06	40900	mg/kg
BZ37-017	748815.67	2082626	0.0	0.5	Lithium	15		11.55	20400	mg/kg
BZ37-017	748815.67	2082626	0.0	0.5	Nickel	21		14.91	20400	mg/kg
BZ37-017	748815.67	2082626	0.0	0.5	Uranium-234	2.263		2.253	300	pCi/g
BZ37-017	748815.67	2082626	0.0	0.5	Uranium-238	2.263		2	351	pCi/g
BZ37-017	748815.67	2082626	0.0	0.5	Zinc	510		73.76	307000	mg/kg
BZ37-017	748815.67	2082626	0.5	2.5	Uranium-234	4.351		2.64	300	pCi/g
BZ37-017	748815.67	2082626	0.5	2.5	Uranium-235	0.1681		0.120	8	pCi/g
BZ37-017	748815.67	2082626	0.5	2.5	Uranium-238	4.351		1.49	351	pCi/g
BZ37-018	748841.45	2082651.08	0.0	0.5	Aluminum	26000		16902	228000	mg/kg
BZ37-018	748841.45	2082651.08	0.0	0.5	Beryllium	2.5		0.966	921	mg/kg
BZ37-018	748841.45	2082651.08	0.0	0.5	Cadmium	3.5		1.612	962	mg/kg
BZ37-018	748841.45	2082651.08	0.0	0.5	Chromium	90		16.99	268	mg/kg
BZ37-018	748841.45	2082651.08	0.0	0.5	Copper	80		18.06	40900	mg/kg
BZ37-018	748841.45	2082651.08	0.0	0.5	Iron	19000		18037	307000	mg/kg
BZ37-018	748841.45	2082651.08	0.0	0.5	Lithium	18		11.55	20400	mg/kg
BZ37-018	748841.45	2082651.08	0.0	0.5	Nickel	16		14.91	20400	mg/kg
BZ37-018	748841.45	2082651.08	0.0	0.5	Uranium, Total	18		5.98	2750	mg/kg
BZ37-018	748841.45	2082651.08	0.0	0.5	Uranium-234	8.096		2.253	300	pCi/g
BZ37-018	748841.45	2082651.08	0.0	0.5	Uranium-235	0.3124		0.0939	8	pCi/g
BZ37-018	748841.45	2082651.08	0.0	0.5	Uranium-238	8.096		2	351	pCi/g
BZ37-018	748841.45	2082651.08	0.5	2.5	Uranium-234	5.209		2.64	300	pCi/g
BZ37-018	748841.45	2082651.08	0.5	2.5	Uranium-238	5.209		1.49	351	pCi/g
BZ37-019	748781.08	2082635.66	0.0	0.5	Aluminum	18000		16902	228000	mg/kg
BZ37-019	748781.08	2082635.66	0.0	0.5	Beryllium	2.7		0.966	921	mg/kg
BZ37-019	748781.08	2082635.66	0.0	0.5	Chromium	64		16.99	268	mg/kg
BZ37-019	748781.08	2082635.66	0.0	0.5	Copper	29		18.06	40900	mg/kg
BZ37-019	748781.08	2082635.66	0.0	0.5	Iron	24000		18037	307000	mg/kg

Location Code	Actual Northing	Actual Easting	Start Depth (ft)	End Depth (ft)	Analyte	Result	Detection Limit	Background Mean+2SD	WRW AL	Unit
BZ37-019	748781.08	2082635.66	0.0	0.5	Lead	56		54.62	1000	mg/kg
BZ37-019	748781.08	2082635.66	0.0	0.5	Lithium	17		11.55	20400	mg/kg
BZ37-019	748781.08	2082635.66	0.0	0.5	Nickel	22		14.91	20400	mg/kg
BZ37-019	748781.08	2082635.66	0.0	0.5	Selenium	1.3		1.224	5110	mg/kg
BZ37-019	748781.08	2082635.66	0.0	0.5	Uranium, Total	6		5.98	2750	mg/kg
BZ37-019	748781.08	2082635.66	0.0	0.5	Uranium-235	0.1509		0.0939	8	pCi/g
BZ37-019	748781.08	2082635.66	0.0	0.5	Vanadium	50		45.59	7150	mg/kg
BZ37-019	748781.08	2082635.66	0.0	0.5	Zinc	400		73.76	307000	mg/kg
BZ37-019	748781.08	2082635.66	0.5	2.5	Uranium, Total	3.6		3.04	2750	mg/kg
BZ37-019	748781.08	2082635.66	0.5	2.5	Uranium-234	5.541		2.64	300	pCi/g
BZ37-019	748781.08	2082635.66	0.5	2.5	Uranium-235	0.2505		0.120	8	pCi/g
BZ37-019	748781.08	2082635.66	0.5	2.5	Uranium-238	5.541		1.49	351	pCi/g
BZ37-020	748806.79	2082660.78	0.0	0.5	Lithium	12		11.55	20400	mg/kg
BZ37-020	748806.79	2082660.78	0.5	2.5	2-Butanone	15	5.7		192000000	ug/kg
BZ37-020	748806.79	2082660.78	0.5	2.5	Aluminum	36000		35373.17	228000	mg/kg
BZ37-020	748806.79	2082660.78	0.5	2.5	Tetrachloroethene	5.5	1.2		615000	ug/kg

WRW AL exceedences indicated in bold; ft - feet; mg/kg - milligrams per kilogram; ug/kg - micrograms per kilogram; pCi/g - picocuries per gram; SD - standard deviation; WRW AL - wildlife worker action level

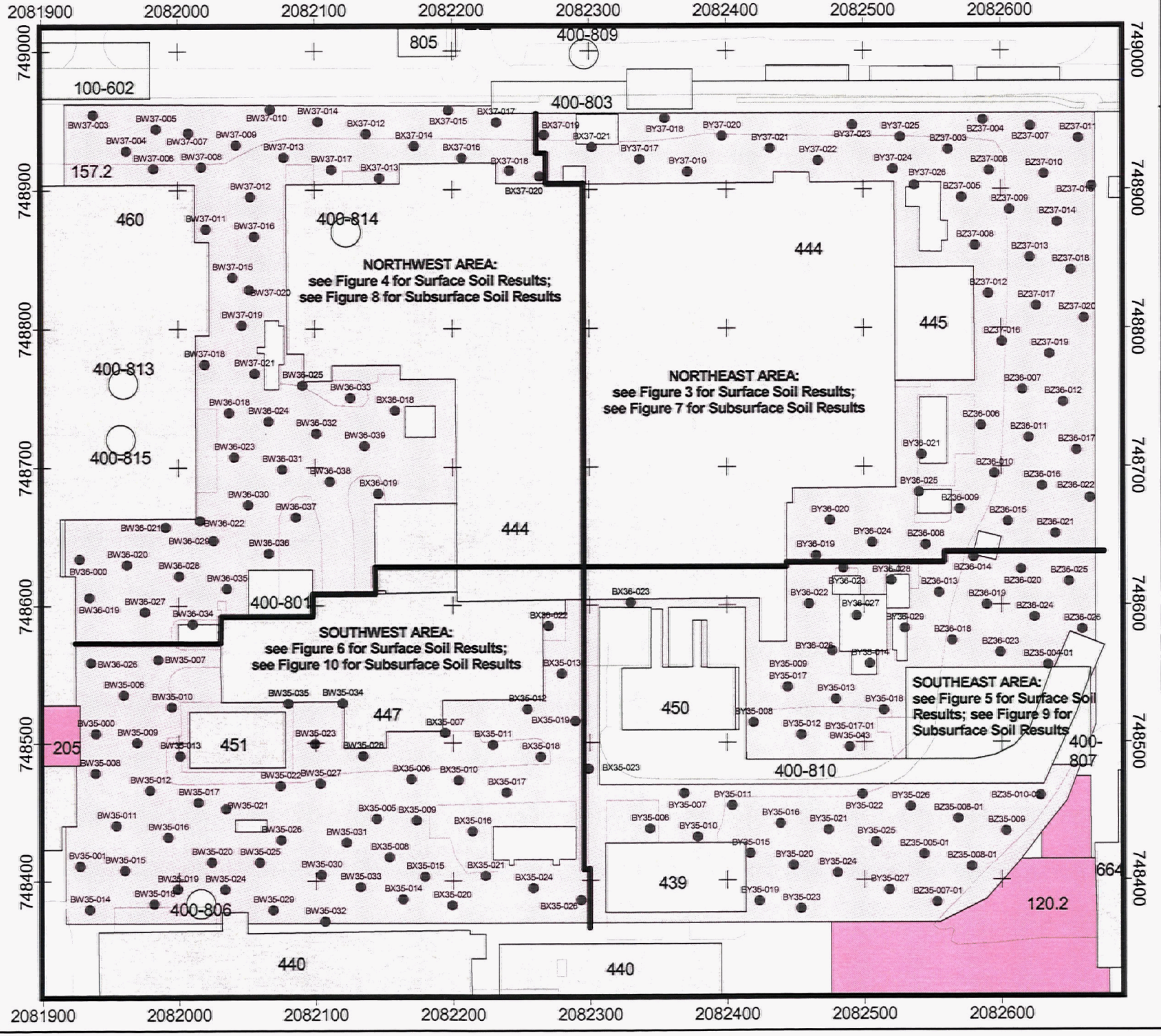

Figure 2
IHSS Group 400-6
Index Map for Surface and Subsurface Soil Results

KEY

- IHSS Group 400-6 Sampling Locations (results posted in Figures 3 through 10)
- IHSS Group 400-6 (IHSS 157.2)
- Other IHSS
- PAC
- Paved Road

Building

- Demolished
- Standing

DRAFT

N
W E
S

50 0 50 Feet

Scale 1:1200
State Plane Coordinate Projection
Colorado Central Zone
Datum: NAD 27

U.S. Department of Energy
Rocky Flats Environmental Technology

Prepared by: RADMS

Prepared for: KAISER•HILL COMPANY

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IHSS Group 400-6

IHSS 157.2 Radioactive Site South Area

September, 2004

Figure 3:

IHSS Group 400-6 Soil Results Greater than Background Means Plus Two Standard Deviations or RLs – Surface Soil Northeast Area

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Figure 4:

IHSS Group 400-6 Soil Results Greater than Background Means Plus Two Standard Deviations or RLs – Surface Soil Northwest Area

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Figure 5:

IHSS Group 400-6 Soil Results Greater than Background Means Plus Two Standard Deviations or RLs – Surface Soil Southeast Area

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Figure 6:

IHSS Group 400-6 Soil Results Greater than Background Means Plus Two Standard Deviations or RLs – Surface Soil Southwest Area

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Figure 7:

IHSS Group 400-6 Soil Results Greater than Background Means Plus Two Standard Deviations or RLs – Subsurface Soil Northeast Area

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Figure 8:

IHSS Group 400-6 Soil Results Greater than Background Means Plus Two Standard Deviations or RLs – Subsurface Soil Northwest Area

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IHSS 157.2 Radioactive Site South Area

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Figure 9:

IHSS Group 400-6 Soil Results Greater than Background Means Plus Two Standard Deviations or RLs – Subsurface Soil Southeast Area

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Figure 10:

IHSS Group 400-6 Soil Results Greater than Background Means Plus Two Standard Deviations or RLs – Subsurface Soil Southwest Area

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September 21, 2004

CERCLA Administrative Record Document, IA-A-002342

U.S. DEPARTEMENT OF ENERGY
ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE

GOLDEN, COLORADO

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detected at BY35-012; however, the detected concentration was an order of magnitude lower than at BY35-008. Polycyclic aromatic hydrocarbon (PAH) compounds such as benzo(a)pyrene and dibenz(a,h)anthracene are commonly associated with asphalt and roofing tar and may also be products of incomplete combustion of organic matter. Based on an inspection of IHSS Group 400-6 site in August 2004, much of the site is or has been paved with asphalt. Although sample locations BY35-008 and BY35-012 are not paved, asphalt pavement is present nearby. In addition, a piece of equipment that appeared to have been used as a rack for applying a tar-like coating to objects was being temporarily stored in the area during the August 2004 inspection. It was not clear whether the equipment had been associated with Building 444 or whether it had ever been used in the area where it was seen.

Data collected throughout IHSS Group 400-6 clearly indicate that the above-mentioned PAH exceedences at BY35-008 are isolated to that location.

The data, retrieved from the RFETS Soil Water Database (SWD) on August 31, 2004, are provided on the enclosed compact disc (CD). The CD contains standardized real and quality control (QC) data, including Chemical Abstract Service (CAS) numbers, analyte names, and units.

2.3 Sums of Ratios

RFCA sums of ratios (SORs) were calculated for the IHSS Group 400-6 sampling locations. SOR calculations were based on accelerated action analytical data for the analytes of concern with activities greater than background means plus two standard deviations in samples collected from depths less than 3 ft. Radionuclide (Rad) and nonradionuclide (NonRad) SORs are calculated separately. Table 4 presents the SORs. All SORs are less than 1.

Table 4
RFCA Radionuclide and Nonradionuclide SORs

Location Code	Start Depth	End Depth	Rad or NonRad	SOR
BV35-001	0.5	1	Rad	0.0421
BV35-001	1	3	Rad	0.0049
BV36-000	0	0.5	Rad	0.0670
BV36-000	0.5	2.5	Rad	0.0462
BW35-006	0	0.5	Rad	0.0500
BW35-006	0.5	2.5	Rad	0.0483
BW35-007	0	0.5	Rad	0.0532
BW35-007	0.5	2.5	Rad	0.0633
BW35-008	0	0.5	Rad	0.0691
BW35-008	0.5	2.5	Rad	0.0481
BW35-009	0.5	2.5	Rad	0.0062
BW35-010	0.7	1.2	Rad	0.0247
BW35-011	0.5	1	Rad	0.0385
BW35-011	1	3	Rad	0.0067
BW35-012	1	1.5	Rad	0.0260
BW35-014	1	3	Rad	0.0207
BW35-015	0.25	0.75	Rad	0.0556

Location Code	Start Depth	End Depth	Rad or NonRad	SOR
BW35-015	0.75	2.75	Rad	0.0562
BW35-016	0	0.5	Rad	0.0202
BW35-016	0.5	2.5	Rad	0.0044
BW35-017	0	0.5	Rad	0.0252
BW35-017	0.5	2.5	Rad	0.0568
BW35-018	0.5	1	Rad	0.0254
BW35-018	1	3	Rad	0.0190
BW35-019	0.5	1	Rad	0.0589
BW35-019	1	3	Rad	0.0468
BW35-020	0.8	2.8	Rad	0.0354
BW35-021	0	0.5	Rad	0.0198
BW35-022	0.5	1	Rad	0.0517
BW35-022	1	3	Rad	0.0542
BW35-023	0	0.5	Rad	0.0043
BW35-024	0.3	0.8	Rad	0.0457
BW35-024	0.3	0.8	NonRad	0.1306
BW35-024	0.8	2.8	Rad	0.0303
BW35-025	0.75	1.25	Rad	0.0154
BW35-025	1.25	3.25	Rad	0.0175
BW35-026	0.5	1	Rad	0.0628
BW35-026	1	3	Rad	0.0591
BW35-027	0.5	1	Rad	0.0274
BW35-027	1	3	Rad	0.0527
BW35-028	0	0.5	Rad	0.0511
BW35-028	0.5	2.5	Rad	0.0521
BW35-029	1	3	Rad	0.0370
BW35-030	0	0.5	Rad	0.0153
BW35-030	0.5	2.5	Rad	0.0158
BW35-031	0.5	2.5	Rad	0.0053
BW35-032	0	0.5	Rad	0.0142
BW35-032	0.5	2.5	Rad	0.0202
BW35-034	0	0.5	Rad	0.0044
BW35-034	0.5	1.5	Rad	0.0047
BW35-035	0	0.5	Rad	0.0201
BW35-035	0.5	1.5	Rad	0.0272
BW35-043	0	0.5	Rad	0.0157
BW35-043	0.5	2.5	Rad	0.0251
BW36-018	0	0.5	Rad	0.0560
BW36-018	0.5	2.5	Rad	0.0595
BW36-019	0	0.5	Rad	0.0181
BW36-019	0.5	2.5	Rad	0.0045
BW36-020	0	0.5	Rad	0.0534
BW36-021	0	0.5	Rad	0.0319
BW36-021	0.5	2.5	Rad	0.0247
BW36-022	0	0.5	Rad	0.0525
BW36-022	0.5	2.5	Rad	0.0503
BW36-023	0	0.5	NonRad	0.4478
BW36-023	0.5	2.5	Rad	0.0171

Location Code	Start Depth	End Depth	Rad or NonRad	SOR
BW36-024	0	0.5	Rad	0.0600
BW36-024	0.5	2.5	Rad	0.0043
BW36-025	0	0.5	Rad	0.0672
BW36-025	0	0.5	NonRad	0.1269
BW36-025	0.5	2.5	Rad	0.0439
BW36-026	0	0.5	Rad	0.0011
BW36-026	0.5	2.5	Rad	0.0026
BW36-027	0	0.5	Rad	0.0247
BW36-027	0.5	2.5	Rad	0.0397
BW36-028	0	0.5	Rad	0.0565
BW36-029	0.5	2.5	Rad	0.0253
BW36-030	0	0.5	Rad	0.0595
BW36-030	0.5	2.5	Rad	0.0542
BW36-031	0	0.5	Rad	0.0193
BW36-031	0.5	2.5	Rad	0.0120
BW36-032	0	0.5	Rad	0.0417
BW36-032	0.5	2.5	Rad	0.0445
BW36-033	0	0.5	NonRad	0.2761
BW36-033	0.5	2.5	Rad	0.0052
BW36-034	0	0.5	Rad	0.0511
BW36-034	0	0.5	NonRad	0.1940
BW36-034	0.5	2.5	Rad	0.0663
BW36-035	0	0.5	Rad	0.0133
BW36-036	0	0.5	Rad	0.0200
BW36-036	0.5	2.5	Rad	0.0051
BW36-037	0.5	1	Rad	0.0176
BW36-038	0	0.5	Rad	0.0258
BW36-038	0	0.5	NonRad	0.1231
BW36-038	0.5	2.5	Rad	0.0582
BW36-039	0	0.5	Rad	0.0147
BW36-039	0	0.5	NonRad	0.3000
BW37-003	0	0.5	Rad	0.0146
BW37-003	0.5	2.5	Rad	0.0274
BW37-004	0	0.5	Rad	0.0186
BW37-006	0	0.5	Rad	0.0519
BW37-007	0	0.5	Rad	0.0155
BW37-007	0.5	2.5	Rad	0.0235
BW37-008	0	0.5	Rad	0.0217
BW37-008	0.5	2.5	Rad	0.0485
BW37-009	0	0.5	Rad	0.0432
BW37-009	0.5	2.5	Rad	0.0048
BW37-010	0	0.5	Rad	0.0137
BW37-010	0.5	2.5	Rad	0.0296
BW37-011	0.8	2.8	Rad	0.0375
BW37-013	0	0.5	Rad	0.0142
BW37-014	0.5	2.5	Rad	0.0473
BW37-016	0	0.5	Rad	0.0434
BW37-016	0.5	2.5	Rad	0.0496

Location Code	Start Depth	End Depth	Rad or NonRad	SOR
BW37-017	0	0.5	Rad	0.0516
BW37-017	0.5	2.5	Rad	0.0474
BW37-018	0.5	2.5	Rad	0.0555
BW37-019	0	0.5	Rad	0.0635
BW37-019	0.5	2.5	Rad	0.0470
BW37-020	0	0.5	Rad	0.0182
BW37-020	0	0.5	NonRad	0.1082
BW37-021	0	0.5	Rad	0.0638
BW37-021	0.5	2.5	Rad	0.0180
BX35-005	0	0.5	Rad	0.0132
BX35-006	0	0.5	Rad	0.0480
BX35-006	0.5	1.5	Rad	0.0662
BX35-007	0	0.5	Rad	0.0294
BX35-008	0	0.5	Rad	0.0221
BX35-008	0.5	2.5	Rad	0.0247
BX35-009	0	0.5	Rad	0.0299
BX35-010	0	0.5	Rad	0.0194
BX35-010	0.5	2.1	Rad	0.0502
BX35-012	0	0.5	Rad	0.0049
BX35-013	0	0.5	Rad	0.0311
BX35-013	0.5	1.3	Rad	0.0277
BX35-014	0	0.5	Rad	0.0566
BX35-014	0.5	2.5	Rad	0.0543
BX35-015	0	0.5	Rad	0.0559
BX35-015	0.5	2.5	Rad	0.0599
BX35-016	0	0.5	Rad	0.0203
BX35-016	0.5	2.5	Rad	0.0561
BX35-017	0	0.5	Rad	0.0557
BX35-017	0.5	2.5	Rad	0.0275
BX35-018	0	0.5	Rad	0.0593
BX35-018	0.5	1.5	Rad	0.0487
BX35-020	0.5	2.5	Rad	0.0048
BX35-021	0	0.5	Rad	0.0306
BX35-023	0	0.5	Rad	0.0055
BX35-023	0.5	2.5	Rad	0.0111
BX35-024	0	0.5	Rad	0.0272
BX35-026	0	0.5	NonRad	0.1194
BX36-018	0	0.5	Rad	0.0241
BX36-018	0.5	2.5	Rad	0.0480
BX36-019	0.5	2.5	Rad	0.0585
BX36-022	0	0.5	Rad	0.0605
BX36-022	0.5	2.5	Rad	0.0487
BX36-023	0.5	2.5	Rad	0.0212
BX37-012	0	0.5	Rad	0.0674
BX37-012	0.5	2.5	Rad	0.0598
BX37-014	0	0.5	Rad	0.0546
BX37-014	0.5	2.5	Rad	0.0221
BX37-015	0	0.5	Rad	0.0555

Location Code	Start Depth	End Depth	Rad or NonRad	SOR
BX37-015	0.5	2.5	Rad	0.0621
BX37-016	0	0.5	Rad	0.0655
BX37-017	0.5	2.5	Rad	0.0532
BX37-018	0	0.5	Rad	0.0420
BX37-018	0.5	2.5	Rad	0.0261
BX37-019	0	0.5	Rad	0.0375
BX37-019	0.5	2.5	Rad	0.0386
BX37-020	1	1.5	Rad	0.0569
BX37-021	0	0.5	Rad	0.0390
BX37-021	0.5	2.5	Rad	0.0405
BY35-006	0	0.5	Rad	0.0503
BY35-006	0.5	1	Rad	0.0529
BY35-007	0	0.5	Rad	0.0458
BY35-007	0.5	2	Rad	0.0058
BY35-009	0	0.5	Rad	0.0053
BY35-010	0	0.5	Rad	0.0546
BY35-010	0.5	1.5	Rad	0.0173
BY35-012	0	0.5	Rad	0.0757
BY35-012	0	0.5	NonRad	0.3882
BY35-012	0.5	2.5	Rad	0.0297
BY35-013	0	0.5	Rad	0.0015
BY35-013	0.5	2.5	Rad	0.0043
BY35-014	0	0.5	Rad	0.0526
BY35-014	0.5	1.5	Rad	0.0181
BY35-015	0	0.5	Rad	0.0175
BY35-017	0.5	1	Rad	0.0177
BY35-017	1	2	Rad	0.0320
BY35-019	0	0.5	Rad	0.0567
BY35-019	0.5	2.5	Rad	0.0217
BY35-020	0.5	2.5	Rad	0.0505
BY35-021	0	0.5	Rad	0.0523
BY35-022	0	0.5	Rad	0.0511
BY35-022	0.5	2.5	Rad	0.0554
BY35-024	0	0.5	Rad	0.0174
BY35-025	0	0.5	Rad	0.0462
BY35-026	0	0.5	Rad	0.0221
BY35-027	0.5	2.5	Rad	0.0457
BY36-019	0	0.5	Rad	0.0599
BY36-019	0.5	2.5	Rad	0.0060
BY36-020	0	0.5	Rad	0.0450
BY36-020	0.5	2.5	Rad	0.0582
BY36-021	0	0.5	Rad	0.0601
BY36-021	0	0.5	NonRad	0.8475
BY36-021	0.5	2.5	Rad	0.0638
BY36-022	0	0.5	Rad	0.0063
BY36-022	0.5	2.5	Rad	0.0734
BY36-023	0	0.5	Rad	0.0655
BY36-023	0.5	2.5	Rad	0.0495

Location Code	Start Depth	End Depth	Rad or NonRad	SOR
BY36-024	0.5	2.5	Rad	0.0565
BY36-025	0	0.5	Rad	0.0445
BY36-025	0.5	2.5	Rad	0.0153
BY36-027	0	0.5	Rad	0.0375
BY36-027	0.5	1.5	Rad	0.0874
BY36-028	0	0.5	Rad	0.0789
BY36-028	0.5	2.5	Rad	0.1080
BY36-029	0	0.5	Rad	0.0620
BY36-029	0.5	1	Rad	0.0058
BY37-017	0.5	2.5	Rad	0.0478
BY37-018	0	0.5	Rad	0.0186
BY37-018	0.5	2.5	Rad	0.0179
BY37-019	0	0.5	Rad	0.0385
BY37-019	0.5	2.5	Rad	0.0477
BY37-020	0.5	2.5	Rad	0.0281
BY37-021	0.5	2.5	Rad	0.0153
BY37-022	0	0.5	Rad	0.0055
BY37-022	0.5	2.5	Rad	0.0291
BY37-023	0	0.5	Rad	0.0293
BY37-023	0	0.5	NonRad	0.1231
BY37-023	0.5	2.5	Rad	0.0061
BY37-024	0.5	2.5	Rad	0.0464
BY37-025	0	0.5	Rad	0.0603
BY37-025	0.5	2.5	Rad	0.0454
BY37-026	0	0.5	Rad	0.0528
BY37-026	0	0.5	NonRad	0.1045
BY37-026	0.5	1.6	Rad	0.0532
BZ35-004-01	0	0.5	Rad	0.0370
BZ35-004-01	0.5	2.5	Rad	0.0187
BZ35-005-01	0	0.5	Rad	0.0214
BZ35-005-01	0.5	2.5	Rad	0.0207
BZ35-006-01	0	0.5	Rad	0.0466
BZ35-006-01	0.5	2.5	Rad	0.0521
BZ35-007-01	0	0.5	Rad	0.0160
BZ35-007-01	0.5	2.5	Rad	0.0627
BZ35-008-01	0	0.5	Rad	0.0466
BZ35-008-01	0.5	2.5	Rad	0.0616
BZ35-009	0	0.5	Rad	0.0205
BZ35-009	0.5	2.5	Rad	0.0454
BZ35-010-02	0	0.5	Rad	0.0544
BZ35-010-02	0.5	2.5	Rad	0.0380
BZ36-006	0	0.5	Rad	0.0241
BZ36-007	0	0.5	Rad	0.0547
BZ36-007	0	0.5	NonRad	0.1082
BZ36-007	0.5	2.5	Rad	0.0559
BZ36-008	1	3	Rad	0.0190
BZ36-009	0	0.5	Rad	0.0292
BZ36-009	0.5	2.5	Rad	0.0603

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Location Code	Start Depth	End Depth	Rad or NonRad	SOR
BZ36-010	0	0.5	Rad	0.0625
BZ36-010	0.5	2.5	Rad	0.0501
BZ36-011	0	0.5	Rad	0.0062
BZ36-011	0.5	2	Rad	0.0070
BZ36-012	0	0.5	Rad	0.0370
BZ36-012	0	0.5	NonRad	0.1306
BZ36-013	0	0.5	Rad	0.0304
BZ36-013	0.5	2.5	Rad	0.0168
BZ36-014	0	0.5	Rad	0.0228
BZ36-014	0.5	2.5	Rad	0.0203
BZ36-015	0	0.5	Rad	0.0683
BZ36-015	0.5	2.5	Rad	0.0621
BZ36-016	0	0.5	Rad	0.0734
BZ36-016	0	0.5	NonRad	0.1306
BZ36-016	0.5	2.5	Rad	0.0459
BZ36-018	0	0.5	Rad	0.0576
BZ36-018	0.5	2.5	Rad	0.0552
BZ36-019	0.5	2.5	Rad	0.0273
BZ36-020	0	0.5	Rad	0.0580
BZ36-020	0.5	2.5	Rad	0.0530
BZ36-021	0	0.5	Rad	0.0546
BZ36-021	0	0.5	NonRad	0.1007
BZ36-021	0.5	2.5	Rad	0.0614
BZ36-022	0	0.5	Rad	0.0364
BZ36-022	0.5	2.5	Rad	0.0212
BZ36-023	0	0.5	Rad	0.0598
BZ36-023	0.5	2.5	Rad	0.0048
BZ36-024	0	0.5	Rad	0.0129
BZ36-024	0	0.5	NonRad	0.1194
BZ36-024	0.5	2.5	Rad	0.0286
BZ36-025	0	0.5	Rad	0.0032
BZ36-026	0.5	2.2	Rad	0.0052
BZ37-003	0.5	1	Rad	0.0151
BZ37-003	0.5	2.5	Rad	0.0223
BZ37-004	0	0.5	Rad	0.0586
BZ37-004	0.5	2.5	Rad	0.0043
BZ37-005	1	1.5	Rad	0.0401
BZ37-005	0.5	1.5	Rad	0.0049
BZ37-006	0	0.5	Rad	0.0560
BZ37-006	0.5	2.5	Rad	0.0673
BZ37-007	0.5	2.5	Rad	0.0553
BZ37-008	0	0.5	Rad	0.0473
BZ37-008	0.5	2.5	Rad	0.0492
BZ37-009	0	0.5	Rad	0.0633
BZ37-009	0.5	2.5	Rad	0.0551
BZ37-010	0.5	2.5	Rad	0.0476
BZ37-011	0.5	2.5	Rad	0.0671
BZ37-012	0	0.5	Rad	0.0327

Location Code	Start Depth	End Depth	Rad or NonRad	SOR
BZ37-012	0.5	2	Rad	0.0560
BZ37-013	0	0.5	Rad	0.0596
BZ37-013	0.5	2.5	Rad	0.0641
BZ37-014	0	0.5	Rad	0.0170
BZ37-015	0	0.5	Rad	0.0511
BZ37-016	0	0.5	Rad	0.0052
BZ37-017	0	0.5	Rad	0.0140
BZ37-017	0	0.5	NonRad	0.2948
BZ37-017	0.5	2.5	Rad	0.0479
BZ37-018	0	0.5	Rad	0.0891
BZ37-018	0	0.5	NonRad	0.3358
BZ37-018	0.5	2.5	Rad	0.0322
BZ37-019	0	0.5	Rad	0.0189
BZ37-019	0	0.5	NonRad	0.2388
BZ37-019	0.5	2.5	Rad	0.0322

NonRad - nonradionuclide; Rad - radionuclide; SOR - sum of ratios

Subsurface soil SORs for nonradionuclides are not presented because subsurface soil concentrations are evaluated as part of the subsurface soil risk screen (SSRS) in Section 3.0.

2.4 Summary Statistics

Summary statistics for analytes detected above background means plus two standard deviations or RLs were calculated by analyte for the IHSS Group 400-6 sampling locations, as presented in Tables 5 and 6 for surface and subsurface soil, respectively.

3.0 SUBSURFACE SOIL RISK SCREEN

The SSRS follows the steps identified on Figure 3 in Attachment 5 of the RFCA Modification (DOE et al. 2003).

Screen 1 – Are the COC concentrations below RFCA Table 3 WRW soil ALs?

No. Accelerated action data for IHSS Group 400-6 include three exceedences for arsenic ranging from 23 to 24 mg/kg, and one exceedence each for benzo(a)pyrene and dibenz(a,h)anthracene, at 15,000 ug/kg and 3600 ug/kg, respectively. All of these exceedences occurred in the B sampling interval (0.5-2.5 ft below ground surface [bgs]).

Screen 2 – Is there a potential for subsurface soil to become surface soil (landslide and erosion areas identified on Figure 1)?

No. IHSS Group 400-6 is not in a high-erosion area according to RFCA Attachment 5 Figure 1.

Screen 3 – Does subsurface soil radiological contamination exceed criteria in Section 5.3 and Attachment 14?

No. As shown in Table 3, there are no subsurface soil exceedences for radionuclides in this IHSS Group.

Table 5
Surface Soil Summary Statistics

Analyte	Total Number Samples Analyzed	Detection* Frequency	Average* Concentration	Maximum Concentration	Background Mean Plus 2SD	Wildlife Refuge Worker Action Level	Unit
4,4'-DDD	10	20.0%	6.750	10.000		143000	ug/kg
4,4'-DDE	10	10.0%	7.200	7.200		101000	ug/kg
4,4'-DDT	10	10.0%	9.100	9.100		100000	ug/kg
Acenaphthene	16	37.5%	134.000	290.000		40800000	ug/kg
alpha-BHC	10	10.0%	7.900	7.900		5240	ug/kg
Aluminum	200	25.0%	24240.000	46000.000	16902.000	228000	mg/kg
Americium-241	200	1.0%	0.678	1.270	0.023	76	pCi/g
Anthracene	16	37.5%	151.333	320.000		204000000	ug/kg
Antimony	200	6.5%	0.797	2.200	0.470	409	mg/kg
Aroclor-1254	11	9.1%	27.000	27.000		12400	ug/kg
Aroclor-1260	11	27.3%	106.000	280.000		12400	ug/kg
Arsenic	200	3.0%	12.500	17.000	10.090	22.2	mg/kg
Barium	200	1.5%	200.000	290.000	141.260	26400	mg/kg
Benzo(a)anthracene	16	31.3%	470.800	1000.000		34900	ug/kg
Benzo(a)pyrene	16	31.3%	497.400	1100.000		3490	ug/kg
Benzo(b)fluoranthene	16	25.0%	397.250	890.000		34900	ug/kg
Benzo(k)fluoranthene	16	25.0%	435.000	860.000		349000	ug/kg
Beryllium	200	24.5%	1.495	5.400	0.966	921	mg/kg
bis(2-Ethylhexyl)phthalate	16	12.5%	340.000	480.000		1970000	ug/kg
Cadmium	200	3.0%	2.967	6.100	1.612	962	mg/kg
Chromium	200	33.5%	29.642	120.000	16.990	268	mg/kg
Chrysene	16	37.5%	500.833	1300.000		3490000	ug/kg
Cobalt	200	1.5%	14.667	18.000	10.910	1550	mg/kg
Copper	200	25.5%	31.471	80.000	18.060	40900	mg/kg
Di-n-octylphthalate	16	6.3%	280.000	280.000		14700000	ug/kg
Dibenz(a,h)anthracene	16	6.3%	99.000	99.000		3490	ug/kg
Dibenzofuran	16	12.5%	74.500	85.000		2950000	ug/kg
Dieldrin	10	10.0%	8.200	8.200		1720	ug/kg
Endosulfan I	10	10.0%	7.400	7.400		4420000	ug/kg
Endosulfan II	10	10.0%	9.900	9.900		4420000	ug/kg
Endosulfan sulfate	10	20.0%	8.250	11.000		4420000	ug/kg
Endrin	10	10.0%	17.000	17.000		221000	ug/kg
Fluoranthene	16	43.8%	960.429	2500.000		27200000	ug/kg
Fluorene	16	37.5%	98.333	210.000		40800000	ug/kg
gamma-BHC	10	10.0%	8.300	8.300		25500	ug/kg
Heptachlor epoxide	10	10.0%	7.200	7.200		3030	ug/kg
Indeno(1,2,3-cd)pyrene	16	25.0%	340.000	610.000		34900	ug/kg
Iron	200	12.0%	22875.000	45000.000	18037.000	307000	mg/kg
Lead	200	3.0%	230.500	590.000	54.620	1000	mg/kg
Lithium	200	18.5%	15.595	43.000	11.550	20400	mg/kg
Manganese	200	2.5%	480.000	550.000	365.080	3480	mg/kg
Mercury	197	4.6%	0.239	0.550	0.134	25200	mg/kg

Analyte	Total Number Samples Analyzed	Detection* Frequency	Average* Concentration	Maximum Concentration	Background Mean Plus 2SD	Wildlife Refuge Worker Action Level	Unit
Methoxychlor	10	10.0%	12.000	12.000		5110000	ug/kg
Nickel	200	23.5%	26.745	280.000	14.910	20400	mg/kg
Phenol	16	6.3%	130.000	130.000		613000000	ug/kg
Plutonium-239/240	198	2.0%	0.350	0.552	0.066	50	pCi/g
Pyrene	16	37.5%	991.667	2400.000		22100000	ug/kg
Selenium	200	1.0%	1.350	1.400	1.224	5110	mg/kg
Strontium	200	5.5%	80.000	190.000	48.940	613000	mg/kg
Tin	200	1.5%	5.800	7.400	2.900	613000	mg/kg
Uranium, Total	200	3.5%	14.657	35.000	5.980	2750	mg/kg
Uranium-234	200	47.5%	4.133	8.096	2.253	300	pCi/g
Uranium-235	200	64.0%	0.204	0.439	0.094	8	pCi/g
Uranium-238	200	50.5%	4.010	8.096	2.000	351	pCi/g
Vanadium	200	7.5%	53.600	75.000	45.590	7150	mg/kg
Zinc	200	22.5%	164.022	630.000	73.760	307000	mg/kg

mg/kg - milligrams per kilogram; ug/kg - micrograms per kilogram; pCi/g - picocuries per gram; SD - standard deviation

*For metals, only detections greater than the background mean plus two standard deviations were used to calculate the detection frequency and average concentration.

Table 6
Subsurface Soil Summary Statistics

Analyte	Total Number Samples Analyzed	Detection* Frequency	Average* Concentration	Maximum Concentration	Background Mean Plus 2SD	Wildlife Refuge Worker Action Level	Unit
1,1,1-Trichloroethane	248	1.21%	8.910	13.700		79700000	ug/kg
1,1-Dichloroethene	248	0.40%	7.980	7.980		17000	ug/kg
2-Butanone	248	0.81%	10.750	15.000		192000000	ug/kg
2-Methylnaphthalene	20	10.00%	731.000	1400.000		20400000	ug/kg
4,4'-DDD	14	14.29%	5.900	7.600		143000	ug/kg
4,4'-DDE	14	14.29%	2.630	4.800		101000	ug/kg
4,4'-DDT	14	7.14%	6.800	6.800		100000	ug/kg
4-Methyl-2-pentanone	248	0.40%	11.000	11.000		16400000	ug/kg
4-Methylphenol	19	5.26%	95.000	95.000		3690000	ug/kg
Acenaphthene	20	20.00%	2137.500	7900.000		40800000	ug/kg
Acetone	248	2.82%	46.714	160.000		102000000	ug/kg
alpha-BHC	14	7.14%	6.800	6.800		5240	ug/kg
Aluminum	247	9.72%	42916.667	61000.000	35373.170	228000	mg/kg
Americium-241	247	2.02%	0.277	0.725	0.020	76	pCi/g
Anthracene	20	20.00%	1912.250	6900.000		204000000	ug/kg
Aroclor-1254	15	6.67%	7.300	7.300		12400	ug/kg
Aroclor-1260	15	20.00%	43.333	87.000		12400	ug/kg
Arsenic	**247**	**5.67%**	**18.357**	**24.000**	**13.140**	**22.2**	**mg/kg**
Barium	247	0.40%	420.000	420.000	289.380	26400	mg/kg
Benzo(a)anthracene	20	30.00%	3041.167	16000.000		34900	ug/kg
Benzo(a)pyrene	**20**	**25.00%**	**3486.000**	**15000.000**		**3490**	**ug/kg**

Analyte	Total Number Samples Analyzed	Detection* Frequency	Average* Concentration	Maximum Concentration	Background Mean Plus 2SD	Wildlife Refuge Worker Action Level	Unit
Benzo(b)fluoranthene	20	25.00%	2608.000	11000.000		34900	ug/kg
Benzo(k)fluoranthene	20	25.00%	3212.000	14000.000		349000	ug/kg
bis(2-Ethylhexyl)phthalate	20	5.00%	240.000	240.000		1970000	ug/kg
Cadmium	247	1.62%	2.800	3.700	1.700	962	mg/kg
Chromium	247	0.81%	125.000	130.000	68.270	268	mg/kg
Chrysene	20	30.00%	3618.000	19000.000		3490000	ug/kg
Cobalt	247	0.40%	41.000	41.000	29.040	1550	mg/kg
Copper	247	2.83%	60.429	110.000	38.210	40900	mg/kg
Dibenz(a,h)anthracene	**20**	**10.00%**	**2000.000**	**3600.000**		**3490**	**ug/kg**
Dibenzofuran	20	10.00%	1755.000	3300.000		2950000	ug/kg
Dieldrin	14	7.14%	6.400	6.400		1720	ug/kg
Endosulfan I	14	7.14%	3.600	3.600		4420000	ug/kg
Endosulfan II	14	7.14%	5.100	5.100		4420000	ug/kg
Endosulfan sulfate	14	14.29%	3.085	5.300		4420000	ug/kg
Endrin	14	7.14%	7.500	7.500		221000	ug/kg
Ethylbenzene	248	0.40%	10.500	10.500		4250000	ug/kg
Fluoranthene	20	25.00%	9038.000	40000.000		27200000	ug/kg
Fluorene	20	10.00%	3385.000	6300.000		40800000	ug/kg
Heptachlor epoxide	14	7.14%	4.200	4.200		3030	ug/kg
Indeno(1,2,3-cd)pyrene	20	25.00%	1650.000	6900.000		34900	ug/kg
Isophorone	20	5.00%	840.000	840.000		29100000	ug/kg
Lead	247	4.05%	39.200	59.000	24.970	1000	mg/kg
Manganese	247	1.62%	1092.500	1400.000	901.620	3480	mg/kg
Methylene chloride	248	0.81%	1.060	1.200		2530000	ug/kg
Naphthalene	249	8.43%	163.930	3000.000		3090000	ug/kg
Nickel	247	0.40%	67.000	67.000	62.210	20400	mg/kg
Phenol	19	5.26%	98.000	98.000		613000000	ug/kg
Plutonium-239/240	245	1.63%	0.604	1.012	0.020	50	pCi/g
Pyrene	20	30.00%	8538.333	46000.000		22100000	ug/kg
Silver	247	1.21%	102.667	110.000	24.540	5110	mg/kg
Tetrachloroethene	248	6.45%	41.589	435.000		615000	ug/kg
Toluene	248	1.21%	4.417	6.460		31300000	ug/kg
Trichloroethene	248	0.81%	1.950	2.300		19600	ug/kg
Uranium, Total	247	4.05%	7.370	21.000	3.040	2750	mg/kg
Uranium-234	247	40.49%	4.218	11.110	2.640	300	pCi/g
Uranium-235	247	55.47%	0.199	0.340	0.120	8	pCi/g
Uranium-238	247	58.70%	3.487	11.110	1.490	351	pCi/g
Vanadium	247	1.62%	100.250	110.000	88.490	7150	mg/kg
Xylene	248	2.02%	30.040	90.200		2040000	ug/kg
Zinc	247	2.83%	281.429	400.000	139.100	307000	mg/kg

mg/kg - milligrams per kilogram; ug/kg - micrograms per kilogram; pCi/g - picocuries per gram; SD - standard deviation

*For metals, only detections greater than the background mean plus two standard deviations were used to calculate the detection frequency and average concentration.

Bold indicates analytes detected above the WRW AL

Screen 4 – Is there an environmental pathway and sufficient quantity of COCs that would cause an exceedence of the surface water standards?

Contaminant migration via erosion of contaminated soil or advective transport of contaminants in groundwater are two possible pathways by which contamination originating in IHSS Group 400-6 could hypothetically enter surface water. These possibilities are examined in the following paragraphs in light of site conditions and available data.

With regard to soil erosion, both natural drainage and the storm drain system convey runoff from the area into both the Walnut Creek and Woman Creek drainages. In general, runoff originating in the southwestern portion of the area flows south toward Woman Creek, while runoff from the remainder of the area flows toward Walnut Creek. As mapped, the drainage divide between the two drainages passes through Building 444 (DOE 2003). The storm drain system also channels water from the area into both drainages. The nearest RFCA points of evaluation (POEs) are GS10 on Walnut Creek and SW027 on Woman Creek. Water quality data for these locations are discussed below.

Water quality samples collected at GS10 have a history of exceeding both the 0.15 picocuries per liter (pCi/L) RFCA standard for plutonium-239/240 and the 0.15 pCi/L RFCA standard for americium-241. Source evaluations conducted from 1997 through 2001 did not definitively identify the source of the plutonium and americium detected at GS10, but suspect areas were identified and IHSS Group 400-6 was not among the suspects. This conclusion is supported by the lack of plutonium-239/240 and americium-241 exceedences in surface and subsurface soil in IHSS Group 400-6.

Water quality data for SW027 are typically below RFCA surface water standards, but infrequent plutonium-239/240 exceedences have occurred. SW027 receives runoff from a large portion of the IA. Potential sources of plutonium-239/240 at SW027 have not been formally evaluated, but SW027 receives runoff from the 903 Pad area, a known source of actinide contamination. The absence of plutonium-239/240 exceedences at IHSS Group 400-6 supports the conclusion that IHSS Group 400-6 is not a source of the plutonium-239/240 detected at SW027.

Regarding a possible groundwater pathway to surface water, Table 7 presents exceedences in groundwater sampled from wells within IHSS Group 400-6, as well as in areas directly up- and downgradient from IHSS Group 400-6. Based on the potentiometric surface map presented in the Integrated Monitoring Plan (IMP) FY03 Background Document (DOE 2003), groundwater in IHSS Group 400-6 flows to the east and southeast, generally toward Woman Creek. Wells located immediately upgradient of IHSS Group 400-6 include 10198, 10598, 40199, and P416289. Monitoring wells P419689, 40099, 40299, 40399, 40499, and 41299 are all located within IHSS Group 400-6 around the exterior of Buildings 444 and 447. Monitoring wells P416789 and P416889 are located downgradient of IHSS Group 400-6, to the southeast of the area. Table 7 summarizes exceedences of the RFCA Tier 2 and Tier 1 groundwater ALs in these wells.

Chlorinated solvent such as tetrachloroethene, trichloroethene, and 1,1-dichloroethene were detected in the IHSS Group 400-6 wells at levels exceeding both Tier 2 and Tier 1 RFCA groundwater ALs. Chlorinated solvent detections in the upgradient well were

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Table 7
Groundwater Exceedences Summary

Area	Well Location Code	Analyte Group	Analyzed Fraction	Analyte	Number of Results	Detections Result		Nondetects Result		Back-ground	Tier 1 AL	Tier 2 AL	Unit
						Min	Max	Min	Max				
Wells Up-gradient of IHSS Group 400-6	10198	Radionuclide	Total	**Uranium-238**	**1**	**251**	**251**			**66.3**	**76.8**	**0.77**	**pCi/L**
	10598	Metal	Dissolved	Thallium	1	0.0114	0.0114			0.0049	0.2	0.002	mg/L
		Metal	Dissolved	Cadmium	2	0.0122	0.0183			0.0043	0.5	0.005	mg/L
		Metal	Dissolved	Barium	6	0.166	2.59			0.1525	200	2	mg/L
		Radionuclide	Total	Cesium-137	1	3.7	3.7			0.78	151	1.51	pCi/L
	40199	VOC	Total	Tetrachloroethene	9	0.5	16.4	0.18	2		500	5	ug/L
	P416289	Metal	Dissolved	Thallium	2	0.008	0.0151			0.0049	0.2	0.002	mg/L
Wells within IHSS Group 400-6	40099	VOC	Total	1,1,1-Trichloroethane	9	13	445	0.11	50		20000	200	ug/L
		VOC	Total	**1,1-Dichloroethene**	**9**	**120**	**757**	**1.2**	**50**		**700**	**7**	**ug/L**
		VOC	Total	Methylene chloride	1	6.8	6.8	10	10		500	5	ug/L
		VOC	Total	Tetrachloroethene	9	15	99.9	0.18	50		500	5	ug/L
		VOC	Total	**Trichloroethene**	**9**	**360**	**1530**	**1**	**50**		**500**	**5**	**ug/L**
		VOC	Total	Vinyl chloride	1	5	5	1	1		200	2	ug/L
	40299	VOC	Total	Tetrachloroethene	9	24.6	78	0.18	5		500	5	ug/L
		VOC	Total	Trichloroethene	7	0.44	13	0.22	5		500	5	ug/L
		VOC	Total	Vinyl chloride	3	0.3	2	0.21	2		200	2	ug/L
	40499	VOC	Total	Tetrachloroethene	9	2.19	13	0.18	1		500	5	ug/L
	41299	Metal	Dissolved	Chromium	9	0.209	0.47			0.0124	10	0.1	mg/L
		VOC	Total	1,1-Dichloroethene	9	3	16	0.19	20		700	7	ug/L
		VOC	Total	**Tetrachloroethene**	**9**	**114**	**510**	**0.18**	**20**		**500**	**5**	**ug/L**
		VOC	Total	Trichloroethene	9	10	95	0.22	20		500	5	ug/L
	P419689	Metal	Dissolved	Thallium	1	0.0071	0.0071			0.0049	0.2	0.002	mg/L
		SVOC	Total	bis(2-Ethylhexyl)phthalate	2	2	110	10	10		600	6	ug/L
		VOC	Total	Tetrachloroethene	19	12	53	0.1	2		500	5	ug/L
Wells Down-gradient from IHSS Group 400-6	P416789	VOC	Total	Tetrachloroethene	15	0.2	7	0.1	1		500	5	ug/L
		VOC	Total	Trichloroethene	17	0.55	24	0.1	1		500	5	ug/L
	P416889	Metal	Total	Cadmium	1	0.0062	0.0062			0.0042	0.5	0.005	mg/L
		Metal	Dissolved	Thallium	3	0.0072	0.0145			0.0049	0.2	0.002	mg/L
		Radionuclide	Dissolved	Cesium-137	1	1.917	1.917			1.48	151	1.51	pCi/L
		VOC	Total	Carbon Tetrachloride	4	0.2	10	0.2	10		500	5	ug/L
		VOC	Total	Tetrachloroethene	26	6	72	0.1	20		500	5	ug/L
		VOC	Total	Trichloroethene	23	0.6	5.35	0.1	10		500	5	ug/L

Tier I AL exceedences shown in bold; : mg/L - milligrams per liter; ug/L - micrograms per liter; pCi/L - picocuries per liter

much less frequent and at concentrations two or more orders of magnitude lower than in the IHSS Group 400-6 area. Although this suggests that there is a source of chlorinated solvents in the immediate area of IHSS Group 400-6, this conclusion could not be corroborated by accelerated action soil data for IHSS Group 400-6.

Chlorinated solvents were also detected in wells downgradient from IHSS Group 400-6, but their concentrations were substantially lower than in IHSS Group 400-6 wells. This is consistent with the process of hydrodynamic dispersion, which is expected to occur as groundwater migrates downgradient. Uranium-238 was detected one time above its RFCA Tier 1 groundwater AL in one upgradient well. There were no uranium exceedences in either the IHSS Group 400-6 wells or the downgradient wells.

Although groundwater contamination is clearly present in IHSS Group 400-6, the data do not indicate that the arsenic and PAHs identified in soil are likely to enter groundwater and migrate downgradient via a groundwater pathway. As shown in Table 8, benzo(a)pyrene and dibenz(a,h)anthracene were never detected in the IHSS Group 400-6 wells or in the up- and downgradient wells. Arsenic was not detected in the downgradient wells but was detected in 15 percent of the samples from wells inside IHSS Group 400-6 and 18 percent of the samples from upgradient wells. In all cases the detected levels of arsenic in groundwater are within the established background range. There is no indication that these detections represent contamination. Moreover, the absence of detectable arsenic in the groundwater samples collected downgradient from IHSS Group 400-6 indicates that arsenic concentrations in groundwater are not increasing as it flows through this IHSS Group.

In summary, the data presented in Tables 7 and 8 indicate that neither the PAHs nor the arsenic detected in soil at IHSS Group 400-6 are significantly affecting groundwater quality in the area of IHSS Group 400-6. It follows that, for purposes of the SSRS, there is not an effective groundwater pathway by which subsurface soil contaminants in IHSS Group 400-6 could be transported and discharged into surface water.

4.0 NFAA SUMMARY

Based on analytical results and the SSRS, action is not required, and an NFAA determination is justified for IHSS Group 400-6 based on the following:

- Concentrations of contaminants of concern (COCs) were not detected above RFCA WRW ALs except for arsenic, benzo(a)pyrene, and dibenz(a,h)anthracene. The concentrations of arsenic and dibenz(a,h)anthracene were only slightly higher than the WRW ALs. Benzo(a)pyrene was detected at approximately four times the WRW AL, but this was an isolated detection in the subsurface.

- Migration of soil contaminants to surface water is unlikely because IHSS Group 400-6 is not located in an area of high erosion, based on RFCA Attachment 5, Figure 1 (DOE et al. 2003).

Migration of the arsenic and PAH contamination found at IHSS Group 400-6 in groundwater is not likely because groundwater data for the area shows that these compounds are not entering groundwater in significant quantities. The VOC contamination present in groundwater at the site is part of the IA Plume, which will

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Table 8
IHSS Group 400-6 Groundwater Data for Arsenic, Benzo(a)pyrene, and Dibenz(a,h)anthracene

Area	Well Location Code	Analyzed Fraction	Analyte	Number of Analyses	Number of Detections	Frequency of Detection	Detections Result		Nondetects Result		Back-ground	Units
							Min	Max	Min	Max		
Wells Up-gradient from IHSS Group 400-6	P416289	Dissolved	Arsenic	4	0	0%	-----		0.001	0.0043	0.00531	mg/L
		Total	Arsenic	2	1	50%		0.0016B		0.003	0.00537	mg/L
		Total	Benzo(a)pyrene	1	0	0%	-----	-----		10	-----	ug/L
		Total	Dibenz(a,h)anthracene	1	0	0%	-----	-----		10	-----	ug/L
	10198	Dissolved	Arsenic	10	1	10%	-----	0.0008	0.00022	0.00513	0.00531	mg/L
	10598	Dissolved	Arsenic	9	4	44%	0.00073	0.0022	0.00022	0.0032	0.00531	mg/L
	40199	Dissolved	Arsenic	9	0	0%	-----	-----	0.00011	0.00246	0.00531	mg/L
Wells Inside IHSS Group 400-6	P419689	Total	Benzo(a)pyrene	3	0	0%	-----	-----		10	-----	ug/L
		Total	Dibenz(a,h)anthracene	3	0	0%	-----	-----		10	-----	ug/L
		Dissolved	Arsenic	17	1	6%	-----	0.00119	0.00032	0.0043	0.00531	mg/L
	40099	Dissolved	Arsenic	8	1	13%	-----	0.0016	0.0022	0.00356	0.00531	mg/L
	40299	Dissolved	Arsenic	9	2	22%	0.00023	0.0009	0.00011	0.00246	0.00531	mg/L
	40399	Dissolved	Arsenic	9	1	11%	0.00052	-----	0.00011	0.00246	0.00531	mg/L
	40499	Dissolved	Arsenic	8	2	25%	0.00039	0.0052	0.00011	0.00246	0.00531	mg/L
	41299	Dissolved	Arsenic	9	2	22%	0.00066	0.0043	0.00062	0.00246	0.00531	mg/L
Wells Down-gradient from IHSS Group 400-6	P416789	Dissolved	Arsenic	10	0	0%	-----	-----	0.00015	0.0025	0.00531	mg/L
		Total	Benzo(a)pyrene	2	0	0%	-----	-----		10	-----	ug/L
		Total	Dibenz(a,h)anthracene	2	0	0%	-----	-----		10	-----	ug/L
	P416889	Dissolved	Arsenic	9	0	0%	-----	-----	0.00065	0.006	0.00531	mg/L
		Total	Arsenic	9	0	0%	-----	-----	0.00015	0.00246	0.00537	mg/L
		Total	Benzo(a)pyrene	2	0	0%	-----	-----		10	-----	ug/L
		Total	Dibenz(a,h)anthracene	2	0	0%	-----	-----		10	-----	ug/L

mg/L - milligrams per liter; ug/L - micrograms per liter

be further evaluated as part of the groundwater Interim Measure/Interim Remedial Action (IM/IRA).

Approval of this Data Summary Report constitutes regulatory agency concurrence that IHSS Group 400-6 is an NFAA Site. This information and the NFAA determination will be documented in the FY04 HRR. Ecological factors will be evaluated in the AAESE and the CRA.

5.0 DATA QUALITY ASSESSMENT

The data quality objectives (DQOs) for this project are described in the IASAP (DOE 2001). All DQOs for this project were achieved based on the following:

- Regulatory agency-approved sampling program design (IASAP Addendum #IA-03-14 [DOE 2002a]), modified because of field conditions, in accordance with the IASAP (DOE 2001);
- Collection of samples in accordance with the sampling design; and
- Results of the Data Quality Assessment (DQA), as described in the following sections.

5.1 Data Quality Assessment Process

The DQA process ensures that the type, quantity, and quality of environmental data used in decision making are defensible, and is based on the following guidance and requirements:

- U.S. Environmental Protection Agency (EPA) QA/G-4, 1994a, Guidance for the Data Quality Objective Process;
- EPA QA/G-9, 1998, Guidance for the Data Quality Assessment Process, Practical Methods for Data Analysis; and
- U.S. Department of Energy (DOE) Order 414.1A, 1999, Quality Assurance.

Verification and validation (V&V) of data are the primary components of the DQA. The final data are compared with original project DQOs and evaluated with respect to project decisions; uncertainty within the decisions; and quality criteria required for the data, specifically precision, accuracy, representativeness, completeness, comparability, and sensitivity (PARCCS). Validation criteria are consistent with the following RFETS-specific documents and industry guidelines:

- EPA 540/R-94/012, 1994b, USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review;
- EPA 540/R-94/013, 1994c, USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review;

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- Kaiser-Hill Company, L.L.C. (K-H) V&V Guidelines:
  - General Guidelines for Data Verification and Validation, DA-GR01-v1, 2002a
  - V&V Guidelines for Isotopic Determinations by Alpha Spectrometry, DA-RC01-v1, 2002b
  - V&V Guidelines for Volatile Organics, DA-SS01-v1, 2002c
  - V&V Guidelines for Semivolatile Organics, DA-SS02-v1, 2002d
  - V&V Guidelines for Metals, DA-SS05-v1, 2002e; and
- Lockheed-Martin, 1997, Evaluation of Radiochemical Data Usability, ES/ER/MS-5.

This report will be submitted to the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) Administrative Record (AR) for permanent storage 30 days after being provided to the Colorado Department of Public Health and Environment (CDPHE) and/or EPA.

5.2 Verification and Validation of Results

Verification ensures that data produced and used by the project are documented and traceable in accordance with quality requirements. Validation consists of a technical review of all data that directly support the project decisions so that any limitations of the data relative to project goals are delineated and the associated data are qualified accordingly. The V&V process defines the criteria that constitute data quality, namely PARCCS parameters. Data traceability is also addressed. V&V criteria include the following:

- Chain-of-custody;
- Preservation and hold times;
- Instrument calibrations;
- Preparation blanks;
- Interference check samples (metals);
- Matrix spikes/matrix spike duplicates (MS/MSDs);
- Laboratory control samples (LCSs);
- Field duplicate measurements;
- Chemical yield (radiochemistry);

- Required quantitation limits/minimum detectable activities (sensitivity of chemical and radiochemical measurements, respectively); and
- Sample analysis and preparation methods.

Evaluation of V&V criteria ensures that PARCCS parameters are satisfactory (i.e., within tolerances acceptable to the project). Satisfactory V&V of laboratory quality controls are captured through application of validation "flags" or qualifiers to individual records.

Raw hard-copy data (for example, individual analytical data packages) are currently filed by report identification number (RIN) and maintained by K-H Analytical Services Division (ASD); older hard copies may reside in the Federal Center in Lakewood, Colorado. Electronic data are stored in the RFETS SWD.

Both real and QC data are included on the enclosed CD.

5.2.1 Accuracy

The following measures of accuracy were evaluated:

- LCS evaluation;
- Surrogate evaluation;
- Field blank evaluation; and
- Sample MS evaluation.

Results are compared to method requirements and project goals. The results of these comparisons are summarized for RFCA COCs where the result could impact project decisions. Particular attention is paid to those values near ALs when QC results could indicate unacceptable levels of uncertainty for decision-making purposes.

Laboratory Control Sample Evaluation

The frequency of LCS measurements is presented in Table 9. As indicated in Table 9 LCSs were run for all methods except gamma spectroscopy. The onsite laboratory is not required to provide these data.

The minimum and maximum LCS results are tabulated by chemical for the entire project in Table 10. Nearly all LCS recoveries were within tolerances. Samples affected by LCS recoveries that were not within tolerances were all nondetects. Only two of the analytes involved were of RFCA concern. Project decisions were not affected by LCS recoveries that were not within tolerances.

LCS results that were outside of tolerances were reviewed to determine whether a potential bias might be indicated.

LCS recoveries are not indicative of matrix effects because they are not prepared using site samples. LCS results do indicate whether the laboratory may be introducing a bias in the results. Recoveries reported above the upper limit may indicate the actual sample

results are less than reported. Because this is environmentally conservative, no further action is needed. The analytes with unacceptable low recoveries were evaluated. If the highest sample result divided by the lowest LCS recovery for that analyte is less than the AL, no concern is warranted because any indicated bias is not great enough to affect project decisions. For this data set, the only result that required additional evaluation was chromium. However, upon further investigation, it was determined that the minimum LCS result was not actually associated with the sample with the maximum chromium detection. When the applicable LCS result was evaluated, project decisions were not affected.

Table 9
LCS Frequency

Test Method	Lab Batch	Laboratory Control Standards
ALPHA SPEC	4027453	Yes
ALPHA SPEC	4027467	Yes
ALPHA SPEC	4027477	Yes
ALPHA SPEC	4032126	Yes
ALPHA SPEC	4032127	Yes
ALPHA SPEC	4032128	Yes
ALPHA SPEC	4141496	Yes
ALPHA SPEC	4145236	Yes
ALPHA SPEC	4145242	Yes
ALPHA SPEC	4149318	Yes
ALPHA SPEC	4149322	Yes
ALPHA SPEC	4149326	Yes
ALPHA SPEC	4152043	Yes
ALPHA SPEC	4152044	Yes
ALPHA SPEC	4152045	Yes
ALPHA SPEC	4163583	Yes
ALPHA SPEC	4163584	Yes
ALPHA SPEC	4163589	Yes
ALPHA SPEC	4168456	Yes
ALPHA SPEC	4168465	Yes
ALPHA SPEC	4168468	Yes
ALPHA SPEC	4170346	Yes
ALPHA SPEC	4170349	Yes
ALPHA SPEC	4170353	Yes
ALPHA SPEC	4174179	Yes
ALPHA SPEC	4174181	Yes
ALPHA SPEC	4174184	Yes
ALPHA SPEC	4175400	Yes
ALPHA SPEC	4175408	Yes
ALPHA SPEC	4175411	Yes
ALPHA SPEC	4183145	Yes

Test Method	Lab Batch	Laboratory Control Standards
ALPHA SPEC	4183146	Yes
ALPHA SPEC	4183147	Yes
ALPHA SPEC	4189010	Yes
ALPHA SPEC	4189011	Yes
ALPHA SPEC	4189012	Yes
ALPHA SPEC	4194609	Yes
ALPHA SPEC	4194613	Yes
ALPHA SPEC	4194615	Yes
SW-846 6010	3343544	Yes
SW-846 6010	3344161	Yes
SW-846 6010	3345587	Yes
SW-846 6010	3346201	Yes
SW-846 6010	3351576	Yes
SW-846 6010	3352250	Yes
SW-846 6010	3364401	Yes
SW-846 6010	3364424	Yes
SW-846 6010	4005383	Yes
SW-846 6010	4005385	Yes
SW-846 6010	4022514	Yes
SW-846 6010	4022547	Yes
SW-846 6010	4027476	Yes
SW-846 6010	4027478	Yes
SW-846 6010	4028483	Yes
SW-846 6010	4028490	Yes
SW-846 6010	4139484	Yes
SW-846 6010	4139536	Yes
SW-846 6010	4140573	Yes
SW-846 6010	4141296	Yes
SW-846 6010	4141573	Yes
SW-846 6010	4141574	Yes
SW-846 6010	4145140	Yes
SW-846 6010	4145141	Yes
SW-846 6010	4146280	Yes
SW-846 6010	4146354	Yes
SW-846 6010	4146578	Yes
SW-846 6010	4146579	Yes
SW-846 6010	4148180	Yes
SW-846 6010	4148181	Yes
SW-846 6010	4156465	Yes
SW-846 6010	4157057	Yes
SW-846 6010	4157058	Yes
SW-846 6010	4160247	Yes
SW-846 6010	4160250	Yes
SW-846 6010	4160432	Yes

Test Method	Lab Batch	Laboratory Control Standards
SW-846 6010	4160433	Yes
SW-846 6010	4161661	Yes
SW-846 6010	4162313	Yes
SW-846 6010	4162314	Yes
SW-846 6010	4162315	Yes
SW-846 6010	4162316	Yes
SW-846 6010	4162321	Yes
SW-846 6010	4163156	Yes
SW-846 6010	4163496	Yes
SW-846 6010	4166285	Yes
SW-846 6010	4166287	Yes
SW-846 6010	4167194	Yes
SW-846 6010	4167207	Yes
SW-846 6010	4168229	Yes
SW-846 6010	4168231	Yes
SW-846 6010	4168530	Yes
SW-846 6010	4168531	Yes
SW-846 6010	4170198	Yes
SW-846 6010	4170199	Yes
SW-846 6010	4170452	Yes
SW-846 6010	4174232	Yes
SW-846 6010	4174235	Yes
SW-846 6010	4174299	Yes
SW-846 6010	4174301	Yes
SW-846 6010	4175480	Yes
SW-846 6010	4176245	Yes
SW-846 6010	4176376	Yes
SW-846 6010	4177511	Yes
SW-846 6010	4177512	Yes
SW-846 6010	4177513	Yes
SW-846 6010	4180234	Yes
SW-846 6010	4180236	Yes
SW-846 6010	4181226	Yes
SW-846 6010	4181564	Yes
SW-846 6010	4183424	Yes
SW-846 6010	4188587	Yes
SW-846 6010	4189113	Yes
SW-846 6010	4189124	Yes
SW-846 6010	4189133	Yes
SW-846 6010	4189536	Yes
SW-846 6010	4192068	Yes
SW-846 6010	4192069	Yes
SW-846 6010	4194375	Yes
SW-846 6010	4194378	Yes

Test Method	Lab Batch	Laboratory Control Standards
SW-846 6010	4208468	Yes
SW-846 8081	3345591	Yes
SW-846 8081	3351577	Yes
SW-846 8081	4146591	Yes
SW-846 8081	4162117	Yes
SW-846 8081	4163495	Yes
SW-846 8081	4176570	Yes
SW-846 8081	4180492	Yes
SW-846 8081	4189533	Yes
SW-846 8082	3351578	Yes
SW-846 8082	4146593	Yes
SW-846 8082	4160423	Yes
SW-846 8082	4162122	Yes
SW-846 8082	4163494	Yes
SW-846 8082	4189534	Yes
SW-846 8260	4023187	Yes
SW-846 8260	4029518	Yes
SW-846 8260	4141445	Yes
SW-846 8260	4143045	Yes
SW-846 8260	4148260	Yes
SW-846 8260	4161466	Yes
SW-846 8260	4162481	Yes
SW-846 8260	4169156	Yes
SW-846 8260	4175445	Yes
SW-846 8260	4177180	Yes
SW-846 8260	4180437	Yes
SW-846 8260	4184444	Yes
SW-846 8260	4191224	Yes
SW-846 8260	MS1 VOA_040521A	Yes
SW-846 8260	MS1 VOA_040601B	Yes
SW-846 8260	MS1 VOA_040602A	Yes
SW-846 8260	MS1 VOA_040603A	Yes
SW-846 8260	MS1 VOA_040607A	Yes
SW-846 8260	MS1 VOA_040609A	Yes
SW-846 8260	MS1 VOA_040609B	Yes
SW-846 8260	MS1 VOA_040610A	Yes
SW-846 8260	MS1 VOA_040614A	Yes
SW-846 8260	MS1 VOA_040616A	Yes
SW-846 8260	MS1 VOA_040621A	Yes
SW-846 8260	MS1 VOA_040622A	Yes
SW-846 8260	MS1 VOA_040624A	Yes
SW-846 8260	MS1 VOA_040628A	Yes
SW-846 8260	MS1 VOA_040629A	Yes
SW-846 8260	MS1 VOA_040630A	Yes

Test Method	Lab Batch	Laboratory Control Standards
SW-846 8260	MS1 VOA_040701B	Yes
SW-846 8260	MS1 VOA_040706A	Yes
SW-846 8260	MS2 VOA_031204B	Yes
SW-846 8260	MS2 VOA_031215A	Yes
SW-846 8260	MS2 VOA_031230A	Yes
SW-846 8260	MS2 VOA_040121A	Yes
SW-846 8260	MS2 VOA_040518A	Yes
SW-846 8260	MS2 VOA_040519A	Yes
SW-846 8260	MS2 VOA_040520A	Yes
SW-846 8260	MS2 VOA_040602A	Yes
SW-846 8260	MS2 VOA_040602B	Yes
SW-846 8260	MS2 VOA_040603A	Yes
SW-846 8260	MS2 VOA_040607A	Yes
SW-846 8260	MS2 VOA_040608A	Yes
SW-846 8260	MS2 VOA_040609A	Yes
SW-846 8260	MS2 VOA_040617A	Yes
SW-846 8260	MS2 VOA_040622A	Yes
SW-846 8260	MS3 VOA_031204A	Yes
SW-846 8260	MS3 VOA_031209B	Yes
SW-846 8260	MS3 VOA_031222A	Yes
SW-846 8260	MS3 VOA_031230A	Yes
SW-846 8260	MS3 VOA_040121A	Yes
SW-846 8260	MS3 VOA_040517A	Yes
SW-846 8260	MS3 VOA_040518A	Yes
SW-846 8260	MS3 VOA_040518B	Yes
SW-846 8260	MS3 VOA_040519A	Yes
SW-846 8260	MS3 VOA_040520A	Yes
SW-846 8260	MS3 VOA_040521A	Yes
SW-846 8260	MS3 VOA_040603A	Yes
SW-846 8260	MS3 VOA_040604A	Yes
SW-846 8260	MS3 VOA_040610A	Yes
SW-846 8260	MS3 VOA_040614A	Yes
SW-846 8260	MS3 VOA_040615A	Yes
SW-846 8260	MS3 VOA_040623A	Yes
SW-846 8260	MS3 VOA_040624A	Yes
SW-846 8260	MS3 VOA_040706A	Yes
SW-846 8270	3351586	Yes
SW-846 8270	4146594	Yes
SW-846 8270	4154516	Yes
SW-846 8270	4156447	Yes
SW-846 8270	4159593	Yes
SW-846 8270	4160422	Yes
SW-846 8270	4162123	Yes
SW-846 8270	4163497	Yes

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Test Method	Lab Batch	Laboratory Control Standards
SW-846 8270	4189535	Yes
SW9010B OR SW9012A	3353407	Yes
SW9010B OR SW9012A	4005336	Yes
SW9010B OR SW9012A	4154409	Yes
SW9010B OR SW9012A	4170120	Yes
SW9010B OR SW9012A	4195443	Yes

Table 10
LCS Evaluation Summary

Test Method Name	CAS Number	Analyte	Min of Result (%REC)	Max of Result (%REC)
SW-846 8260	71-55-6	1,1,1-Trichloroethane	75.15	122
SW-846 8260	79-34-5	1,1,2,2-Tetrachloroethane	74.37	119.5
SW-846 8260	79-00-5	1,1,2-Trichloroethane	83.38	117.8
SW-846 8260	75-34-3	1,1-Dichloroethane	79.47	122.9
SW-846 8260	75-35-4	1,1-Dichloroethene	79.57	142.9
SW-846 8260	120-82-1	1,2,4-Trichlorobenzene	81	117.8
SW-846 8270	120-82-1	1,2,4-Trichlorobenzene	56	81
SW-846 8260	95-50-1	1,2-Dichlorobenzene	84.66	114.8
SW-846 8260	107-06-2	1,2-Dichloroethane	79.13	128
SW-846 8260	78-87-5	1,2-Dichloropropane	83.39	117.1
SW-846 8260	106-46-7	1,4-Dichlorobenzene	84	116.1
SW-846 8270	95-95-4	2,4,5-Trichlorophenol	58	91
SW-846 8270	88-06-2	2,4,6-Trichlorophenol	54	84
SW-846 8270	120-83-2	2,4-Dichlorophenol	56	83
SW-846 8270	105-67-9	2,4-Dimethylphenol	55	85
SW-846 8270	51-28-5	2,4-Dinitrophenol	24	77
SW-846 8270	121-14-2	2,4-Dinitrotoluene	57	92
SW-846 8270	606-20-2	2,6-Dinitrotoluene	57	88
SW-846 8260	78-93-3	2-Butanone	39.25	151.4
SW-846 8270	91-58-7	2-Chloronaphthalene	54	82
SW-846 8270	95-57-8	2-Chlorophenol	56	84
SW-846 8270	91-57-6	2-Methylnaphthalene	58	84
SW-846 8270	95-48-7	2-Methylphenol	58	86
SW-846 8270	88-74-4	2-Nitroaniline	54	94
SW-846 8270	91-94-1	3,3'-Dichlorobenzidine	42	73
SW-846 8081	50-29-3	4,4'-DDT	89	113
SW-846 8270	534-52-1	4,6-Dinitro-2-methylphenol	40	77
SW-846 8270	106-47-8	4-Chloroaniline	34	75
SW-846 8260	108-10-1	4-Methyl-2-pentanone	70.77	122.2
SW-846 8270	106-44-5	4-Methylphenol	58	87
SW-846 8270	100-02-7	4-Nitrophenol	54	106
SW-846 8270	83-32-9	Acenaphthene	55	83

Test Method Name	CAS Number	Analyte	Min of Result (%REC)	Max of Result (%REC)
SW-846 8260	67-64-1	Acetone	30.58	161.9
SW-846 8081	309-00-2	Aldrin	87	108
SW-846 6010	7429-90-5	Aluminum	91	107
SW-846 8270	120-12-7	Anthracene	56	87
SW-846 6010	7440-36-0	Antimony	85	100
SW-846 8082	12674-11-2	Aroclor-1016	72	87
SW-846 8082	11096-82-5	Aroclor-1260	81	104
SW-846 6010	7440-38-2	Arsenic	84	104
SW-846 6010	7440-39-3	Barium	91	107
SW-846 8260	71-43-2	Benzene	83.24	116.4
SW-846 8270	56-55-3	Benzo(a)anthracene	53	85
SW-846 8270	50-32-8	Benzo(a)pyrene	53	88
SW-846 8270	205-99-2	Benzo(b)fluoranthene	52	85
SW-846 8270	207-08-9	Benzo(k)fluoranthene	51	89
SW-846 8270	65-85-0	Benzoic Acid	23	59
SW-846 8270	100-51-6	Benzyl Alcohol	58	85
SW-846 6010	7440-41-7	Beryllium	92	106
SW-846 8270	111-44-4	bis(2-Chloroethyl)ether	49	85
SW-846 8270	39638-32-9	bis(2-Chloroisopropyl)ether	50	78
SW-846 8270	117-81-7	bis(2-Ethylhexyl)phthalate	54	689
SW-846 8260	75-27-4	Bromodichloromethane	80.23	116
SW-846 8260	75-25-2	Bromoform	79.05	118
SW-846 8260	74-83-9	Bromomethane	54.36	139
SW-846 8270	85-68-7	Butylbenzylphthalate	55	84
SW-846 6010	7440-43-9	Cadmium	85	104
SW-846 8260	75-15-0	Carbon Disulfide	70	171.8
SW-846 8260	56-23-5	Carbon Tetrachloride	75.51	118
SW-846 8260	108-90-7	Chlorobenzene	88.07	109.1
SW-846 8260	75-00-3	Chloroethane	72.09	189.3
SW-846 8260	67-66-3	Chloroform	78.94	119
SW-846 8260	74-87-3	Chloromethane	55.38	266
SW-846 6010	7440-47-3	Chromium	89	106
SW-846 8270	218-01-9	Chrysene	52	83
SW-846 8260	10061-01-5	cis-1,3-Dichloropropene	81.16	115.2
SW-846 6010	7440-48-4	Cobalt	86	103
SW-846 6010	7440-50-8	Copper	88	104
SW9010B OR SW9012A	57-12-5	Cyanide	98	103
SW-846 8270	84-74-2	Di-n-butylphthalate	56	87
SW-846 8270	117-84-0	Di-n-octylphthalate	51	78
SW-846 8270	53-70-3	Dibenz(a,h)anthracene	53	85
SW-846 8270	132-64-9	Dibenzofuran	59	86
SW-846 8260	124-48-1	Dibromochloromethane	84.65	113
SW-846 8081	60-57-1	Dieldrin	94	111
SW-846 8270	84-66-2	Diethylphthalate	57	86
SW-846 8270	131-11-3	Dimethylphthalate	57	83

Test Method Name	CAS Number	Analyte	Min of Result (%REC)	Max of Result (%REC)
SW-846 8081	72-20-8	Endrin	92	116
SW-846 8260	100-41-4	Ethylbenzene	89	114.3
SW-846 8270	206-44-0	Fluoranthene	53	89
SW-846 8270	86-73-7	Fluorene	57	83
SW-846 8081	58-89-9	gamma-BHC	85	104
SW-846 8081	76-44-8	Heptachlor	83	119
SW-846 8270	118-74-1	Hexachlorobenzene	54	84
SW-846 8260	87-68-3	Hexachlorobutadiene	79	118.1
SW-846 8270	87-68-3	Hexachlorobutadiene	56	81
SW-846 8270	77-47-4	Hexachlorocyclopentadiene	43	76
SW-846 8270	67-72-1	Hexachloroethane	57	80
SW-846 8270	193-39-5	Indeno(1,2,3-cd)pyrene	54	85
SW-846 6010	7439-89-6	Iron	92	106
SW-846 8270	78-59-1	Isophorone	57	83
SW-846 6010	7439-92-1	Lead	88	105
SW-846 6010	7439-93-2	Lithium	86	102
SW-846 6010	7439-96-5	Manganese	89	105
SW-846 6010	7439-97-6	Mercury	92	107
SW-846 8260	75-09-2	Methylene chloride	72.53	141.3
SW-846 6010	7439-98-7	Molybdenum	86	101
SW-846 8270	86-30-6	n-Nitrosodiphenylamine	62	92
SW-846 8270	621-64-7	n-Nitrosodipropylamine	51	82
SW-846 8270	91-20-3	Naphthalene	55	80
SW-846 8260	91-20-3	Naphthalene	69	129.9
SW-846 6010	7440-02-0	Nickel	88	103
SW-846 8270	98-95-3	Nitrobenzene	54	83
SW-846 8270	87-86-5	Pentachlorophenol	43	78
SW-846 8270	108-95-2	Phenol	56	84
SW-846 8270	129-00-0	Pyrene	51	79
SW-846 6010	7782-49-2	Selenium	86	105
SW-846 6010	7440-22-4	Silver	87	107
SW-846 6010	7440-24-6	Strontium	90	107
SW-846 8260	100-42-5	Styrene	87	121.9
SW-846 8260	127-18-4	Tetrachloroethene	80.72	113
SW-846 6010	7440-31-5	Tin	81	95
SW-846 8260	108-88-3	Toluene	84.3	115.3
SW-846 8260	10061-02-6	trans-1,3-Dichloropropene	84	115
SW-846 8260	79-01-6	Trichloroethene	79.45	118.2
SW-846 6010	11-09-6	Uranium, Total	90	108
SW-846 6010	7440-62-2	Vanadium	87	106
SW-846 8260	75-01-4	Vinyl chloride	71.87	208
SW-846 8260	1330-20-7	Xylene	88	117.3
SW-846 6010	7440-66-6	Zinc	84	103

CAS - Chemical Abstract Service; %REC - percent recovery

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Surrogate Evaluation

The minimum and maximum surrogate results are tabulated by chemical for the entire project in Table 11. Surrogates are added to every sample, and therefore surrogate recoveries only impact individual samples. Unacceptable surrogate recoveries can indicate potential matrix effects. Surrogate recoveries reported above 100 percent may indicate the actual sample results are less than reported. Because this is environmentally conservative, no further action is needed. Therefore, only the lowest recoveries were evaluated. The lowest recovery in this data set was 0 percent for the surrogate 2-fluorophenol in Sample BW37-012B. A review of the QC data for this sample indicates that recoveries for the other surrogates analyzed under method SW-846 8270 were significantly higher at 77 percent for 2-fluorobiphenyl, 72 percent for nitrobenzene, and 66 percent for p-terphenyl-D14.

The minimum recoveries shown in Table 11 for nitrobenzene-D5 and p-terphenyl-D14 were for BY35-008B. Low recoveries for this sample did not affect project decisions since PAH compounds were above the WRW AL for this sample.

Additionally, the lowest recovery for 2-fluorobiphenyl was 42 percent at BY35-009B. Real results were well below the WRW AL for this sample, therefore no project decisions were affected.

For the VOC surrogate recoveries, all sample results were so far below the WRW AL that no project decisions were affected by the lowest of these recoveries.

Any qualifications of results due to surrogate results are captured in the V&V flags, described in Section 5.2.3.

Table 11
Surrogate Recovery Summary

Number of Samples	Surrogate	Minimum (%REC)	Maximum (%REC)
VOC Surrogate Recoveries			
249	4-Bromofluorobenzene	81.66	138
249	1,2-dichloroethane-D	74	137.5
249	Toluene-D	83	124
SVOC Surrogate Recoveries			
35	2-Fluorobiphenyl	42	86
35	2-Fluorophenol	0	90
35	Nitrobenzene-D5	51	84
35	p-Terphenyl-D14	37	101

%REC - percent recovery; SVOC - semivolatile organic compound; VOC - volatile organic compound

Field Blank Evaluation

Results of the field QA analyses are given in Table 12. Detectable amounts of contaminants within the blanks, which could indicate possible cross-contamination of samples, are evaluated if the same contaminant is detected in the associated real samples.

When the real result is less than 10 times the blank result for laboratory contaminants and 5 times the result for non-laboratory contaminants, the real result is eliminated. While some of the blank results indicate that cross-contamination may have occurred (toluene and uranium-235), project decisions were not affected because all real results were less than the ALs.

Table 12
Field QA Summary

Laboratory	CAS No.	Analyte	Sample QC Code	Detected Value	Result Unit
URS	108-88-3	Toluene	RNS	1.5	ug/L
URS	15117-96-1	Uranium-235	RNS	0.225	pCi/g
URS	15117-96-1	Uranium-235	FB	0.213	pCi/g
URS	7440-61-1	Uranium-238	FB	3.16	pCi/g
URS	7440-61-1	Uranium-238	RNS	3.34	pCi/g

RNS - Rinse Blank, FB - Field Blank; ug/L - micrograms per liter; pCi/g - picocuries per gram

Sample Matrix Spike Evaluation

The minimum and maximum MS results are summarized by chemical for the entire project in Table 13. Organic analytes with unacceptable low recoveries resulted in a review of the LCS recoveries. According to the EPA data validation guidelines, if organic matrix spike recoveries are low, then the LCS recovery is to be checked and, if acceptable, no action is to be taken. For this project, several analytes had minimum recoveries of 0 percent, but the LCS recoveries for these same analytes were adequate. Benzoic acid had relatively low minimum recoveries for both Matrix Spike and LCS samples, but this did not affect project decisions as the RFCA WRW AL for benzoic acid is $>10^9$ ug/kg.

For inorganics, the associated sample results were divided by the lowest percent recovery for each analyte. If the resulting number is less than the AL, decisions were not impacted, therefore no action was taken. For this project, all results were acceptable, however, chromium, iron, manganese, and zinc had zero percent recovery as a low. For iron and zinc, the maxiumum observed concentration is less than 15 percent of the WRW AL. For chromium and manganese, the maximum observed concentrations were less than 50 percent of the WRW AL. Manganese was detected at concentrations greater than the background mean plus two standard deviations in less than 2 percent of all samples. Chromium was detected above the background mean plus two standard deviations in approximately 35 percent of surface soil samples and in about 1 percent subsurface soil samples. The low MS recoveries for these metals do not impact project decisions.

Table 13
Sample MS Evaluation Summary

Test Method	CAS No.	Analyte	Minimum (%REC)	Maximum (%REC)	Number of Laboratory Samples	Number of Laboratory Batches

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Test Method	CAS No.	Analyte	Minimum (%REC)	Maximum (%REC)	Number of Laboratory Samples	Number of Laboratory Batches
SW-846 8260	71-55-6	1,1,1-Trichloroethane	72	210.1	36	36
SW-846 8260	79-34-5	1,1,2,2-Tetrachloroethane	0	117.9	36	36
SW-846 8260	79-00-5	1,1,2-Trichloroethane	39.35	117.7	36	36
SW-846 8260	75-34-3	1,1-Dichloroethane	82.26	129.6	36	36
SW-846 8260	75-35-4	1,1-Dichloroethene	73.51	139	36	36
SW-846 8260	120-82-1	1,2,4-Trichlorobenzene	34.32	100.4	36	36
SW-846 8270	120-82-1	1,2,4-Trichlorobenzene	55	82	6	6
SW-846 8260	95-50-1	1,2-Dichlorobenzene	69.95	104	36	36
SW-846 8260	107-06-2	1,2-Dichloroethane	83	121.5	36	36
SW-846 8260	78-87-5	1,2-Dichloropropane	87	121.5	36	36
SW-846 8260	106-46-7	1,4-Dichlorobenzene	67.28	104	36	36
SW-846 8270	95-95-4	2,4,5-Trichlorophenol	57	92	6	6
SW-846 8270	88-06-2	2,4,6-Trichlorophenol	57	88	6	6
SW-846 8270	120-83-2	2,4-Dichlorophenol	57	86	6	6
SW-846 8270	105-67-9	2,4-Dimethylphenol	62	91	6	6
SW-846 8270	51-28-5	2,4-Dinitrophenol	35	66	6	6
SW-846 8270	121-14-2	2,4-Dinitrotoluene	62	95	6	6
SW-846 8270	606-20-2	2,6-Dinitrotoluene	58	93	6	6
SW-846 8260	78-93-3	2-Butanone	56.73	198.1	36	36
SW-846 8270	91-58-7	2-Chloronaphthalene	55	83	6	6
SW-846 8270	95-57-8	2-Chlorophenol	57	81	6	6
SW-846 8270	91-57-6	2-Methylnaphthalene	59	85	6	6
SW-846 8270	95-48-7	2-Methylphenol	64	86	6	6
SW-846 8270	88-74-4	2-Nitroaniline	60	91	6	6
SW-846 8270	91-94-1	3,3'-Dichlorobenzidine	52	84	6	6
SW-846 8081	50-29-3	4,4'-DDT	0	113	4	4
SW-846 8270	534-52-1	4,6-Dinitro-2-methylphenol	44	71	6	6
SW-846 8270	106-47-8	4-Chloroaniline	54	73	6	6
SW-846 8260	108-10-1	4-Methyl-2-pentanone	69.82	116.8	36	36
SW-846 8270	106-44-5	4-Methylphenol	64	86	6	6
SW-846 8270	100-02-7	4-Nitrophenol	53	101	6	6
SW-846 8270	83-32-9	Acenaphthene	56	84	6	6
SW-846 8260	67-64-1	Acetone	21.14	217.6	36	36
SW-846 8081	309-00-2	Aldrin	0	103	4	4
SW-846 6010	7429-90-5	Aluminum	374	9750	25	25
SW-846 8270	120-12-7	Anthracene	56	91	6	6
SW-846 6010	7440-36-0	Antimony	30	71	25	25
SW-846 8082	12674-11-2	Aroclor-1016	77	113	4	4
SW-846 8082	11096-82-5	Aroclor-1260	81	91	4	4
SW-846 6010	7440-38-2	Arsenic	81	100	25	25
SW-846 6010	7440-39-3	Barium	78	115	25	25
SW-846 8260	71-43-2	Benzene	82	121.3	36	36
SW-846 8270	56-55-3	Benzo(a)anthracene	53	88	6	6

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Test Method	CAS No.	Analyte	Minimum (%REC)	Maximum (%REC)	Number of Laboratory Samples	Number of Laboratory Batches
SW-846 8270	50-32-8	Benzo(a)pyrene	56	89	6	6
SW-846 8270	205-99-2	Benzo(b)fluoranthene	52	83	6	6
SW-846 8270	207-08-9	Benzo(k)fluoranthene	54	86	6	6
SW-846 8270	65-85-0	Benzoic Acid	21	69	6	6
SW-846 8270	100-51-6	Benzyl Alcohol	63	86	6	6
SW-846 6010	7440-41-7	Beryllium	77	105	25	25
SW-846 8270	111-44-4	bis(2-Chloroethyl)ether	55	70	6	6
SW-846 8270	39638-32-9	bis(2-Chloroisopropyl)ether	55	73	6	6
SW-846 8270	117-81-7	bis(2-Ethylhexyl)phthalate	51	85	6	6
SW-846 8260	75-27-4	Bromodichloromethane	80.5	124.6	36	36
SW-846 8260	75-25-2	Bromoform	80.53	109.9	36	36
SW-846 8260	74-83-9	Bromomethane	68.37	204.3	36	36
SW-846 8270	85-68-7	Butylbenzylphthalate	56	90	6	6
SW-846 6010	7440-43-9	Cadmium	72	128	25	25
SW-846 8260	75-15-0	Carbon Disulfide	54.95	117.2	36	36
SW-846 8260	56-23-5	Carbon Tetrachloride	70	136.3	36	36
SW-846 8260	108-90-7	Chlorobenzene	80.25	108	36	36
SW-846 8260	75-00-3	Chloroethane	61.62	161.2	36	36
SW-846 8260	67-66-3	Chloroform	82	126.5	36	36
SW-846 8260	74-87-3	Chloromethane	36.19	167.8	36	36
SW-846 6010	7440-47-3	Chromium	0	143	25	25
SW-846 8270	218-01-9	Chrysene	50	85	6	6
SW-846 8260	10061-01-5	cis-1,3-Dichloropropene	83.7	120.5	36	36
SW-846 6010	7440-48-4	Cobalt	79	100	25	25
SW-846 6010	7440-50-8	Copper	68	155	25	25
SW9010B or 9012A	57-12-5	Cyanide	95	107	5	5
SW-846 8270	84-74-2	Di-n-butylphthalate	54	92	6	6
SW-846 8270	117-84-0	Di-n-octylphthalate	50	86	6	6
SW-846 8270	53-70-3	Dibenz(a,h)anthracene	50	80	6	6
SW-846 8270	132-64-9	Dibenzofuran	60	89	6	6
SW-846 8260	124-48-1	Dibromochloromethane	83.13	112	36	36
SW-846 8081	60-57-1	Dieldrin	0	110	4	4
SW-846 8270	84-66-2	Diethylphthalate	58	89	6	6
SW-846 8270	131-11-3	Dimethylphthalate	58	87	6	6
SW-846 8081	72-20-8	Endrin	0	122	4	4
SW-846 8260	100-41-4	Ethylbenzene	75.84	108	36	36
SW-846 8270	206-44-0	Fluoranthene	49	92	6	6
SW-846 8270	86-73-7	Fluorene	57	87	6	6
SW-846 8081	58-89-9	gamma-BHC	0	103	4	4
SW-846 8081	76-44-8	Heptachlor	0	106	4	4
SW-846 8270	118-74-1	Hexachlorobenzene	53	84	6	6
SW-846 8260	87-68-3	Hexachlorobutadiene	20.86	101.8	36	36

Test Method	CAS No.	Analyte	Minimum (%REC)	Maximum (%REC)	Number of Laboratory Samples	Number of Laboratory Batches
SW-846 8270	87-68-3	Hexachlorobutadiene	55	83	6	6
SW-846 8270	77-47-4	Hexachlorocyclopentadiene	20	68	6	6
SW-846 8270	67-72-1	Hexachloroethane	53	78	6	6
SW-846 8270	193-39-5	Indeno(1,2,3-cd)pyrene	48	81	6	6
SW-846 6010	7439-89-6	Iron	0	16900	25	25
SW-846 8270	78-59-1	Isophorone	59	84	6	6
SW-846 6010	7439-92-1	Lead	41	109	25	25
SW-846 6010	7439-93-2	Lithium	81	114	25	25
SW-846 6010	7439-96-5	Manganese	0	530	25	25
SW-846 6010	7439-97-6	Mercury	82	125	27	27
SW-846 8260	75-09-2	Methylene chloride	69.06	148.1	36	36
SW-846 6010	7439-98-7	Molybdenum	71	96	25	25
SW-846 8270	86-30-6	n-Nitrosodiphenylamine	63	97	6	6
SW-846 8270	621-64-7	n-Nitrosodipropylamine	58	78	6	6
SW-846 8270	91-20-3	Naphthalene	54	82	6	6
SW-846 8260	91-20-3	Naphthalene	-69.22	115.3	36	36
SW-846 6010	7440-02-0	Nickel	81	112	25	25
SW-846 8270	98-95-3	Nitrobenzene	60	79	6	6
SW-846 8270	87-86-5	Pentachlorophenol	42	74	6	6
SW-846 8270	108-95-2	Phenol	62	81	6	6
SW-846 8270	129-00-0	Pyrene	53	84	6	6
SW-846 6010	7782-49-2	Selenium	82	100	25	25
SW-846 6010	7440-22-4	Silver	79	312	25	25
SW-846 6010	7440-24-6	Strontium	80	132	25	25
SW-846 8260	100-42-5	Styrene	73.86	107.9	36	36
SW-846 8260	127-18-4	Tetrachloroethene	-8.638	3006	36	36
SW-846 6010	7440-31-5	Tin	67	91	25	25
SW-846 8260	108-88-3	Toluene	85.18	112	36	36
SW-846 8260	10061-02-6	trans-1,3-Dichloropropene	80.13	110	36	36
SW-846 8260	79-01-6	Trichloroethene	71	177.9	36	36
SW-846 6010	11-09-6	Uranium, Total	82	100	25	25
SW-846 6010	7440-62-2	Vanadium	78	131	25	25
SW-846 8260	75-01-4	Vinyl chloride	46.64	151.2	36	36
SW-846 8260	1330-20-7	Xylene	76.3	108.6	36	36
SW-846 6010	7440-66-6	Zinc	0	190	25	25

CAS - Chemical Abstract Service; %REC - percent recovery

5.2.2 Precision

Matrix Spike Duplicate Evaluation

Laboratory precision is measured through use of MSDs which are summarized in Table 14. The analytes with the highest relative percent differences (RPDs) were reviewed by comparing the highest sample result to the AL. If the highest samples were

sufficiently below the AL, no further action is needed. For this project, chromium was the only analyte with a high RPD (514 percent) that also had a maximum concentration approaching the WRW AL (max=130 mg/kg; WRW=268 mg/kg). However, the 514 percent RPD was specifically associated with sample BY37-018A, and the actual chromium concentration in this sample was only 17 mg/kg. No project decisions were affected by MSD results with high RPDs.

Table 14
Sample MSD Evaluation Summary

Test Method	CAS No.	Analyte	Max RPD (%)
SW-846 8260	71-55-6	1,1,1-Trichloroethane	137
SW-846 8260	79-34-5	1,1,2,2-Tetrachloroethane	124.7
SW-846 8260	79-00-5	1,1,2-Trichloroethane	120.5
SW-846 8260	75-34-3	1,1-Dichloroethane	129.6
SW-846 8260	75-35-4	1,1-Dichloroethene	145.7
SW-846 8260	120-82-1	1,2,4-Trichlorobenzene	99.41
SW-846 8270	120-82-1	1,2,4-Trichlorobenzene	77
SW-846 8260	95-50-1	1,2-Dichlorobenzene	104
SW-846 8260	107-06-2	1,2-Dichloroethane	125.4
SW-846 8260	78-87-5	1,2-Dichloropropane	116.5
SW-846 8260	106-46-7	1,4-Dichlorobenzene	105
SW-846 8270	95-95-4	2,4,5-Trichlorophenol	88
SW-846 8270	88-06-2	2,4,6-Trichlorophenol	84
SW-846 8270	120-83-2	2,4-Dichlorophenol	78
SW-846 8270	105-67-9	2,4-Dimethylphenol	83
SW-846 8270	51-28-5	2,4-Dinitrophenol	67
SW-846 8270	121-14-2	2,4-Dinitrotoluene	94
SW-846 8270	606-20-2	2,6-Dinitrotoluene	93
SW-846 8260	78-93-3	2-Butanone	205.4
SW-846 8270	91-58-7	2-Chloronaphthalene	78
SW-846 8270	95-57-8	2-Chlorophenol	78
SW-846 8270	91-57-6	2-Methylnaphthalene	80
SW-846 8270	95-48-7	2-Methylphenol	78
SW-846 8270	88-74-4	2-Nitroaniline	90
SW-846 8270	91-94-1	3,3'-Dichlorobenzidine	75
SW-846 8081	50-29-3	4,4'-DDT	105
SW-846 8270	534-52-1	4,6-Dinitro-2-methylphenol	74
SW-846 8270	106-47-8	4-Chloroaniline	65
SW-846 8260	108-10-1	4-Methyl-2-pentanone	132.1
SW-846 8270	106-44-5	4-Methylphenol	81
SW-846 8270	100-02-7	4-Nitrophenol	95
SW-846 8270	83-32-9	Acenaphthene	80
SW-846 8260	67-64-1	Acetone	211.9
SW-846 8081	309-00-2	Aldrin	97

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Test Method	CAS No.	Analyte	Max RPD (%)
SW-846 6010	7429-90-5	Aluminum	11800
SW-846 8270	120-12-7	Anthracene	88
SW-846 6010	7440-36-0	Antimony	75
SW-846 8082	12674-11-2	Aroclor-1016	104
SW-846 8082	11096-82-5	Aroclor-1260	97
SW-846 6010	7440-38-2	Arsenic	101
SW-846 6010	7440-39-3	Barium	119
SW-846 8260	71-43-2	Benzene	120.3
SW-846 8270	56-55-3	Benzo(a)anthracene	85
SW-846 8270	50-32-8	Benzo(a)pyrene	88
SW-846 8270	205-99-2	Benzo(b)fluoranthene	87
SW-846 8270	207-08-9	Benzo(k)fluoranthene	91
SW-846 8270	65-85-0	Benzoic Acid	65
SW-846 8270	100-51-6	Benzyl Alcohol	82
SW-846 6010	7440-41-7	Beryllium	107
SW-846 8270	111-44-4	bis(2-Chloroethyl)ether	69
SW-846 8270	39638-32-9	bis(2-Chloroisopropyl)ether	71
SW-846 8270	117-81-7	bis(2-Ethylhexyl)phthalate	83
SW-846 8260	75-27-4	Bromodichloromethane	125
SW-846 8260	75-25-2	Bromoform	117.8
SW-846 8260	74-83-9	Bromomethane	224.1
SW-846 8270	85-68-7	Butylbenzylphthalate	89
SW-846 6010	7440-43-9	Cadmium	100
SW-846 8260	75-15-0	Carbon Disulfide	122.2
SW-846 8260	56-23-5	Carbon Tetrachloride	126.4
SW-846 8260	108-90-7	Chlorobenzene	106
SW-846 8260	75-00-3	Chloroethane	171.4
SW-846 8260	67-66-3	Chloroform	130.3
SW-846 8260	74-87-3	Chloromethane	187
SW-846 6010	7440-47-3	Chromium	514
SW-846 8270	218-01-9	Chrysene	83
SW-846 8260	10061-01-5	cis-1,3-Dichloropropene	121.1
SW-846 6010	7440-48-4	Cobalt	104
SW-846 6010	7440-50-8	Copper	123
SW9010B OR SW9012A	57-12-5	Cyanide	114
SW-846 8270	84-74-2	Di-n-butylphthalate	91
SW-846 8270	117-84-0	Di-n-octylphthalate	84
SW-846 8270	53-70-3	Dibenz(a,h)anthracene	78
SW-846 8270	132-64-9	Dibenzofuran	85
SW-846 8260	124-48-1	Dibromochloromethane	109.8
SW-846 8081	60-57-1	Dieldrin	102
SW-846 8270	84-66-2	Diethylphthalate	87
SW-846 8270	131-11-3	Dimethylphthalate	85
SW-846 8081	72-20-8	Endrin	114

Test Method	CAS No.	Analyte	Max RPD (%)
SW-846 8260	100-41-4	Ethylbenzene	104.4
SW-846 8270	206-44-0	Fluoranthene	90
SW-846 8270	86-73-7	Fluorene	84
SW-846 8081	58-89-9	gamma-BHC	96
SW-846 8081	76-44-8	Heptachlor	98
SW-846 8270	118-74-1	Hexachlorobenzene	80
SW-846 8260	87-68-3	Hexachlorobutadiene	92.47
SW-846 8270	87-68-3	Hexachlorobutadiene	78
SW-846 8270	77-47-4	Hexachlorocyclopentadiene	67
SW-846 8270	67-72-1	Hexachloroethane	76
SW-846 8270	193-39-5	Indeno(1,2,3-cd)pyrene	77
SW-846 6010	7439-89-6	Iron	6630
SW-846 8270	78-59-1	Isophorone	80
SW-846 6010	7439-92-1	Lead	199
SW-846 6010	7439-93-2	Lithium	108
SW-846 6010	7439-96-5	Manganese	569
SW-846 6010	7439-97-6	Mercury	112
SW-846 8260	75-09-2	Methylene chloride	152
SW-846 6010	7439-98-7	Molybdenum	102
SW-846 8270	86-30-6	n-Nitrosodiphenylamine	93
SW-846 8270	621-64-7	n-Nitrosodipropylamine	76
SW-846 8270	91-20-3	Naphthalene	78
SW-846 8260	91-20-3	Naphthalene	135
SW-846 6010	7440-02-0	Nickel	117
SW-846 8270	98-95-3	Nitrobenzene	77
SW-846 8270	87-86-5	Pentachlorophenol	76
SW-846 8270	108-95-2	Phenol	77
SW-846 8270	129-00-0	Pyrene	81
SW-846 6010	7782-49-2	Selenium	101
SW-846 6010	7440-22-4	Silver	218
SW-846 6010	7440-24-6	Strontium	134
SW-846 8260	100-42-5	Styrene	116.1
SW-846 8260	127-18-4	Tetrachloroethene	111
SW-846 6010	7440-31-5	Tin	91
SW-846 8260	108-88-3	Toluene	111.9
SW-846 8260	10061-02-6	trans-1,3-Dichloropropene	111
SW-846 8260	79-01-6	Trichloroethene	180.3
SW-846 6010	11-09-6	Uranium, Total	102
SW-846 6010	7440-62-2	Vanadium	153
SW-846 8260	75-01-4	Vinyl chloride	150.3
SW-846 8260	1330-20-7	Xylene	116.7
SW-846 6010	7440-66-6	Zinc	275

CAS - Chemical Abstract Service; RPD - relative percent difference

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Field Duplicate Evaluation

Field duplicate results reflect sampling precision, or overall repeatability of the sampling process. The frequency of field duplicate collection should exceed 1 field duplicate per 20 real samples, or 5 percent. This goal is applied to the overall project and not on a specific IHSS Group basis. Table 15 indicates that sampling frequencies were greater than 5 percent for all samples collected except for gamma spectroscopy, SW-846 6010/6010B, and SW-846 8260.

Table 15
Field Duplicate Sample Frequency Summary

Test Method	Sample Code	Number of Samples	% Duplicate Samples
ALPHA SPEC	REAL DUP	46 12	26.09%
GAMMA SPECTROSCOPY	REAL DUP	447 16	3.58%
SW-846 6010	REAL DUP	447 16	3.58%
SW-846 8081	REAL DUP	24 4	16.67%
SW-846 8082	REAL DUP	26 4	15.38%
SW-846 8260	REAL DUP	249 8	3.21%
SW-846 8270	REAL DUP	36 6	16.67%
SW9010B OR SW9012A	REAL DUP	30 2	6.67%

DUP - field duplicate

The RPDs indicate how much variation exists in the field duplicate analyses. The EPA data validation guidelines state that "there are no required review criteria for field duplicate analyses comparability." For the DQA, the highest Max RPDs were reviewed. The highest sample amount for those analytes were corrected for the associated RPD (Table 16), and the resulting number was compared to the AL. For this project, project decisions were not impacted.

Table 16
Field Duplicate RPD Evaluation Summary

Lab Code	Analyte	Max of Result RPD
ESTLDEN	1,1,1-Trichloroethane	3.70
ESTLDEN	1,1-Dichloroethane	3.70
ESTLDEN	1,2,4-Trichlorobenzene	3.70
ESTLDEN	1,2,4-Trichlorobenzene	5.13

Lab Code	Analyte	Max of Result RPD
ESTLDEN	1,2-Dichloroethane	3.39
ESTLDEN	2,4,5-Trichlorophenol	5.13
ESTLDEN	2,4,6-Trichlorophenol	5.13
ESTLDEN	2,4-Dichlorophenol	5.13
ESTLDEN	2,4-Dimethylphenol	5.13
ESTLDEN	2,4-Dinitrophenol	5.13
ESTLDEN	2-Chloronaphthalene	5.13
ESTLDEN	2-Chlorophenol	5.13
ESTLDEN	2-Methylnaphthalene	5.13
ESTLDEN	2-Methylphenol	5.13
ESTLDEN	2-Nitroaniline	5.13
ESTLDEN	3,3'-Dichlorobenzidine	6.45
ESTLDEN	4,4'-DDD	165.30
ESTLDEN	4,4'-DDE	165.30
ESTLDEN	4,6-Dinitro-2-methylphenol	5.13
ESTLDEN	4-Chloroaniline	6.45
ESTLDEN	4-Methyl-2-pentanone	4.65
ESTLDEN	4-Methylphenol	5.13
ESTLDEN	4-Nitrophenol	5.13
ESTLDEN	Acenaphthene	5.13
ESTLDEN	Acetone	70.50
ESTLDEN	Aluminum	53.06
ESTLDEN	Anthracene	5.13
ESTLDEN	Aroclor-1016	2.82
ESTLDEN	Aroclor-1221	2.82
ESTLDEN	Aroclor-1232	2.82
ESTLDEN	Aroclor-1242	2.82
ESTLDEN	Aroclor-1254	65.38
ESTLDEN	Aroclor-1260	2.82
ESTLDEN	Arsenic	73.38
ESTLDEN	Barium	53.91
ESTLDEN	Benzene	3.70
ESTLDEN	Benzo(a)anthracene	18.60
ESTLDEN	Benzo(a)pyrene	13.33
ESTLDEN	Benzo(b)fluoranthene	60.00
ESTLDEN	Benzo(k)fluoranthene	5.13
ESTLDEN	Benzoic Acid	5.13
ESTLDEN	Benzyl Alcohol	6.45
ESTLDEN	Beryllium	63.57
ESTLDEN	bis(2-Chloroethyl)ether	5.13
ESTLDEN	bis(2-Chloroisopropyl)ether	5.13
ESTLDEN	bis(2-Ethylhexyl)phthalate	5.13
ESTLDEN	Bromodichloromethane	3.70
ESTLDEN	Bromoform	3.70
ESTLDEN	Butylbenzylphthalate	5.13

Lab Code	Analyte	Max of Result RPD
ESTLDEN	Cadmium	71.84
ESTLDEN	Carbon Disulfide	3.70
ESTLDEN	Chlorobenzene	3.70
ESTLDEN	Chloroform	3.70
ESTLDEN	Chromium	140.43
ESTLDEN	Chrysene	20.95
ESTLDEN	cis-1,3-Dichloropropene	3.70
ESTLDEN	Cobalt	89.86
ESTLDEN	Copper	110.08
ESTLDEN	Di-n-butylphthalate	5.13
ESTLDEN	Di-n-octylphthalate	5.13
ESTLDEN	Dibenz(a,h)anthracene	5.13
ESTLDEN	Dibenzofuran	5.13
ESTLDEN	Dibromochloromethane	3.70
ESTLDEN	Diethylphthalate	5.13
ESTLDEN	Dimethylphthalate	5.13
ESTLDEN	Fluoranthene	101.08
ESTLDEN	Fluorene	5.13
ESTLDEN	Heptachlor epoxide	164.50
ESTLDEN	Hexachlorobenzene	5.13
ESTLDEN	Hexachlorobutadiene	5.13
ESTLDEN	Hexachlorocyclopentadiene	5.13
ESTLDEN	Hexachloroethane	5.13
ESTLDEN	Indeno(1,2,3-cd)pyrene	15.38
ESTLDEN	Iron	90.32
ESTLDEN	Isophorone	12.66
ESTLDEN	Lead	190.08
ESTLDEN	Lithium	56.41
ESTLDEN	Manganese	104.76
ESTLDEN	Mercury	109.79
ESTLDEN	Methoxychlor	164.51
ESTLDEN	Methylene chloride	3.64
ESTLDEN	Molybdenum	12.50
ESTLDEN	n-Nitrosodiphenylamine	5.13
ESTLDEN	n-Nitrosodipropylamine	5.13
ESTLDEN	Naphthalene	3.70
ESTLDEN	Naphthalene	5.13
ESTLDEN	Nickel	130.00
ESTLDEN	Nitrobenzene	5.13
ESTLDEN	Pentachlorophenol	5.13
ESTLDEN	Phenol	5.13
ESTLDEN	Pyrene	11.54
ESTLDEN	Silver	170.59
ESTLDEN	Strontium	44.44
ESTLDEN	Styrene	3.70

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Lab Code	Analyte	Max of Result RPD
ESTLDEN	Tetrachloroethene	98.51
URS	Tetrachloroethene	90.60
ESTLDEN	Toluene	3.70
ESTLDEN	Toxaphene	165.30
ESTLDEN	trans-1,3-Dichloropropene	1.65
ESTLDEN	Trichloroethene	3.70
ESTLDEN	Uranium-238	33.43
ESTLDEN	Vanadium	72.46
ESTLDEN	Zinc	115.52

RPD - relative percent difference

5.2.3 Completeness

Based on original project DQOs, a minimum of 25 percent of Environmental Restoration (ER) Program analytical (and radiological) results must be formally verified and validated. Of that percentage, no more than 10 percent of the results may be rejected, which ensures that analytical laboratory practices are consistent with quality requirements. These goals are applied to the overall project and not on a specific IHSS Group basis. Table 17 shows the number and percentage of validated records (codes without "1"), the number and percentage of verified records (codes with "1"), and the percentage of rejected records for each analytical method.

Table 17
Validation and Verification Summary

Validation Qualifier Code	Total of CAS Number	Alpha Spec	Gamma Spec	SW-846 6010	SW-846 8081	SW-846 8082	SW-846 8260	SW-846 8270	SW-846 9010B OR 9012A
No V&V	49	0	48	0	0	0	1	0	0
1	138	0	0	18	68	0	0	52	0
J	507	0	0	503	0	1	3	0	0
J1	1316	2	0	1283	2	0	23	6	0
JB	3	0	0	0	0	0	3	0	0
JB1	10	0	0	0	0	0	10	0	0
R	6	4	0	2	0	0	0	0	0
R1	15	0	0	2	0	0	0	13	0
UJ	221	0	0	150	0	0	71	0	0
UJ1	720	0	0	460	3	0	216	41	0
V	4694	36	291	2036	0	13	1902	416	0
V1	16493	188	1002	5827	335	168	7599	1344	30
Total	24172	230	1341	10281	408	182	9828	1872	30
Validated	5431	40	291	2691	0	14	1979	416	0
% Validated	22.5%	174%	21.7%	26.2%	0.0%	7.7%	20.1%	22.2%	0.0%
Verified	18692	190	1002	7590	408	168	7848	1456	30
% Verified	77.3%	82.6%	74.7%	73.8%	100.0%	92.3%	79.9%	77.8%	100.0%

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5.2.4 Sensitivity

RLs, in units of ug/kg for organics, mg/kg for metals, and picocuries per gram (pCi/g) for radionuclides, were compared with RFCA WRW ALs. Adequate sensitivities of analytical methods were attained for all COCs that affect project decisions. "Adequate" sensitivity is defined as an RL less than an analyte's associated AL, typically less than one-half the AL.

5.3 Summary of Data Quality

Six records were rejected out of more than 24,000 records. The overall rate of data validation was 22.5 percent. If additional V&V information is received, IHSS Group 400-6 records will be updated in SWD. Data qualified as a result of additional data will be assessed as part of the CRA process. Data collected and used for IHSS Group 400-6 are adequate for decision making based on ER Program Goals.

6.0 REFERENCES

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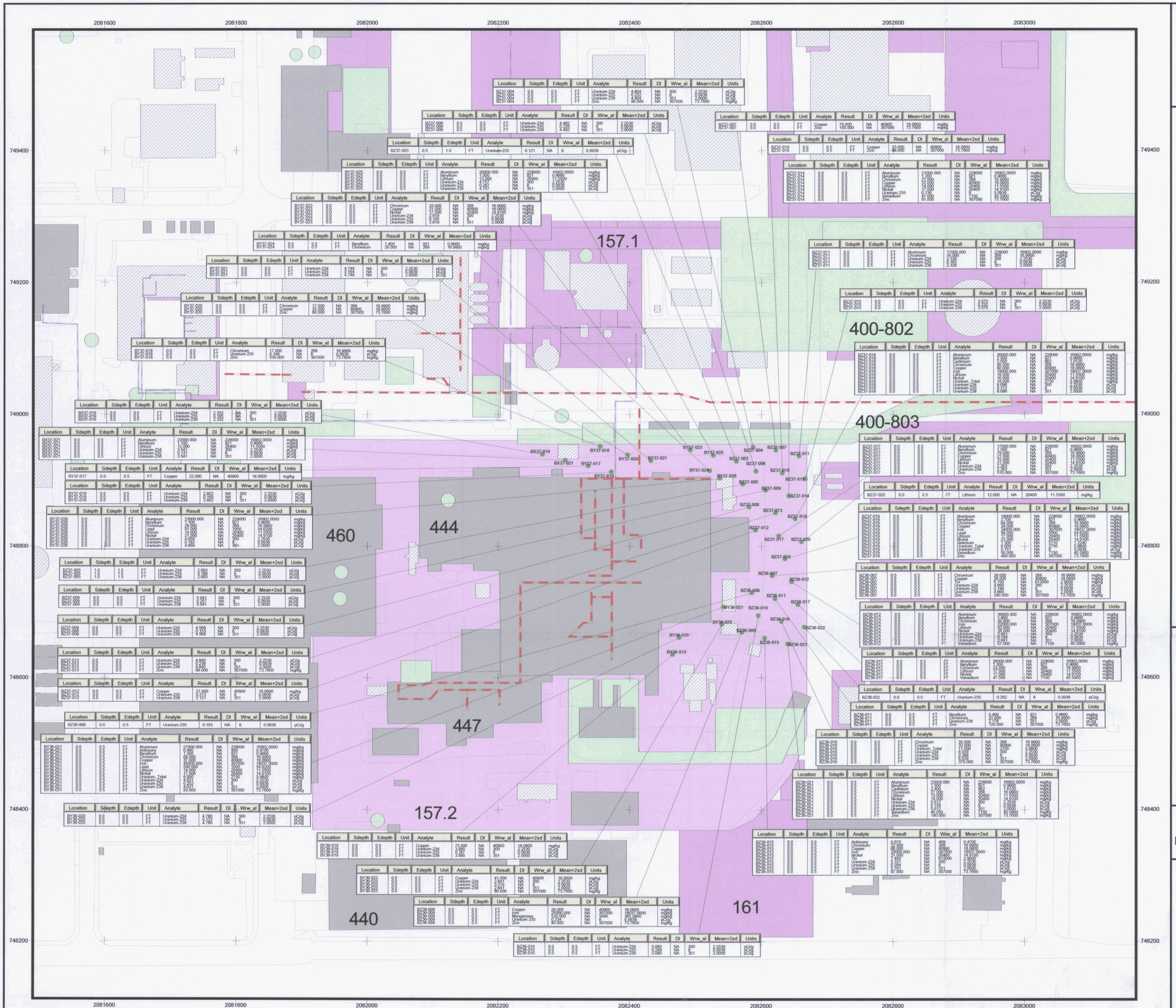
Figure 3
IHSS Group 400-6 Soil Results Greater than Background Means Plus Two Standard Deviations or RLs -- Surface Soil Northeast Area



KEY

- Results above Background Mean Plus Two Standard Deviations or RL and below WRW AL
- Results above WRW AL
- IHSS Group 400-6 (IHSS 157.2)
- Other IHSSs
- PAC
- New Process Waste Lines
- Original Process Waste Lines
- Paved Road

Building

- Demolished
- Standing

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State Plane Coordinate Projection
Colorado Central Zone
Datum: NAD 27

U.S. Department of Energy
Rocky Flats Environmental Technology Site

Prepared by: RADMS

Prepared for: KAISER•HILL COMPANY

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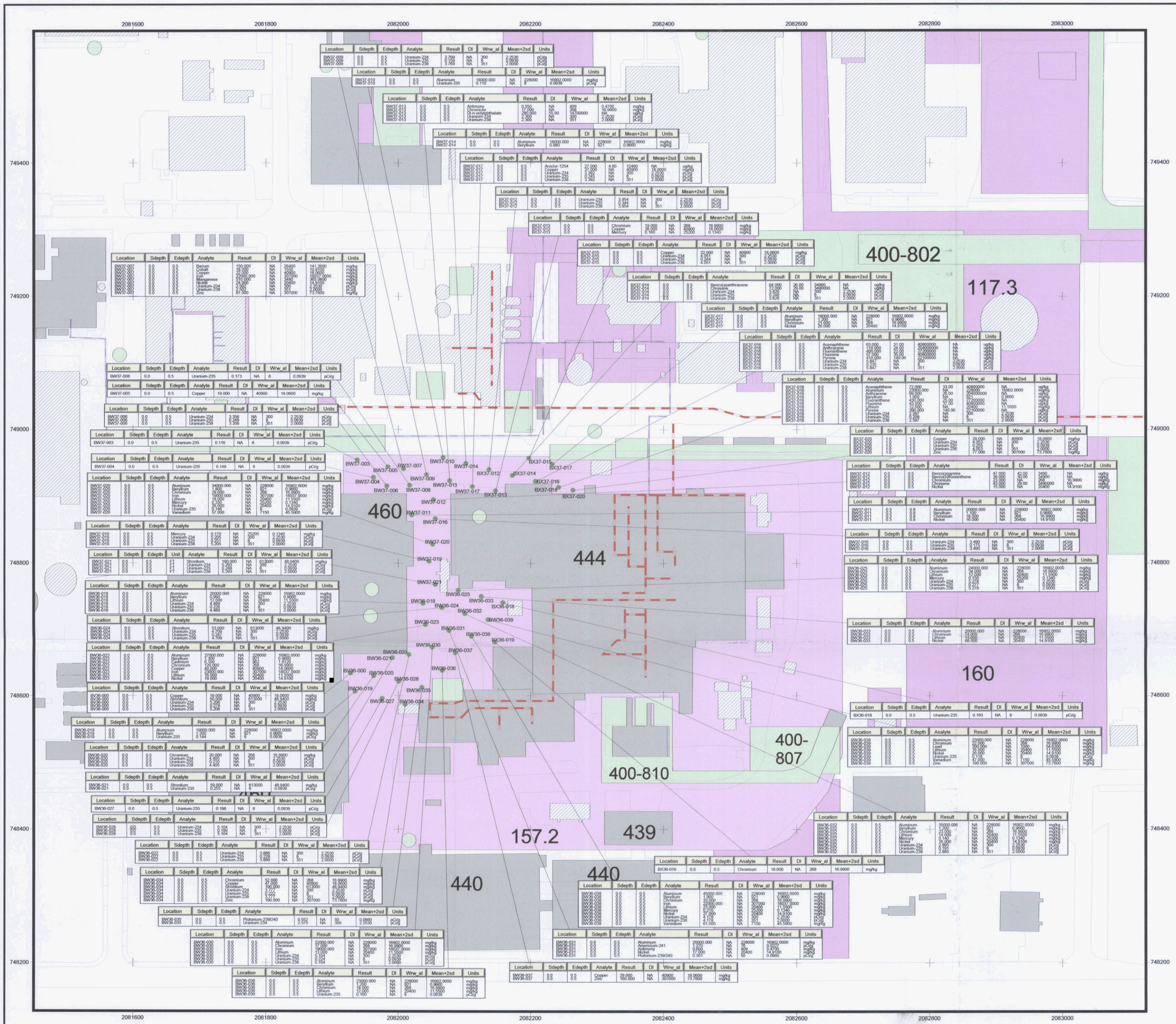
Figure 4
IHSS Group 400-6 Soil Results Greater Than Background Mean Plus Two Standard Deviations or RLs -- Surface Soil Northwest Area



KEY

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- Results above WRW AL
- IHSS Group 400-6 (IHSS 157.2)
- Other IHSSs
- PAC
- New Process Waste Lines
- Original Process Waste Lines
- Paved Road

Building

- Demolished
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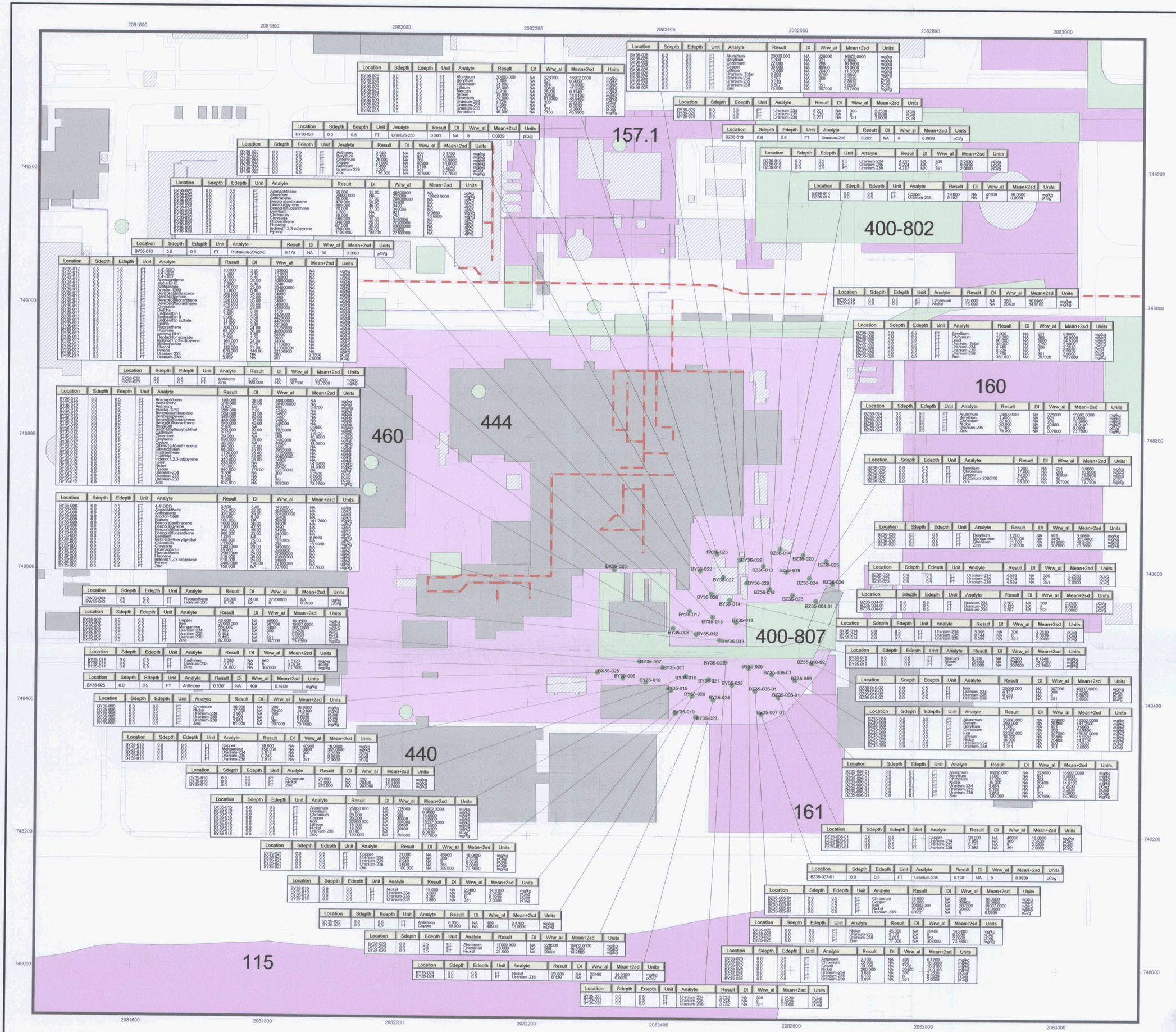
Figure 5
IHSS Group 400-6 Soil Results Greater Than Background Means Plus Two Standard Deviations or RLs -- Surface Soil Southeast Area



KEY

- Results above Background Mean Plus Two Standard Deviations or RL and below WRW AL
- Results above WRW AL
- IHSS Group 400-6 (IHSS 157.2)
- Other IHSSs
- PAC
- New Process Waste Lines
- Original Process Waste Lines
- Paved Road

Building

- Demolished
- Standing

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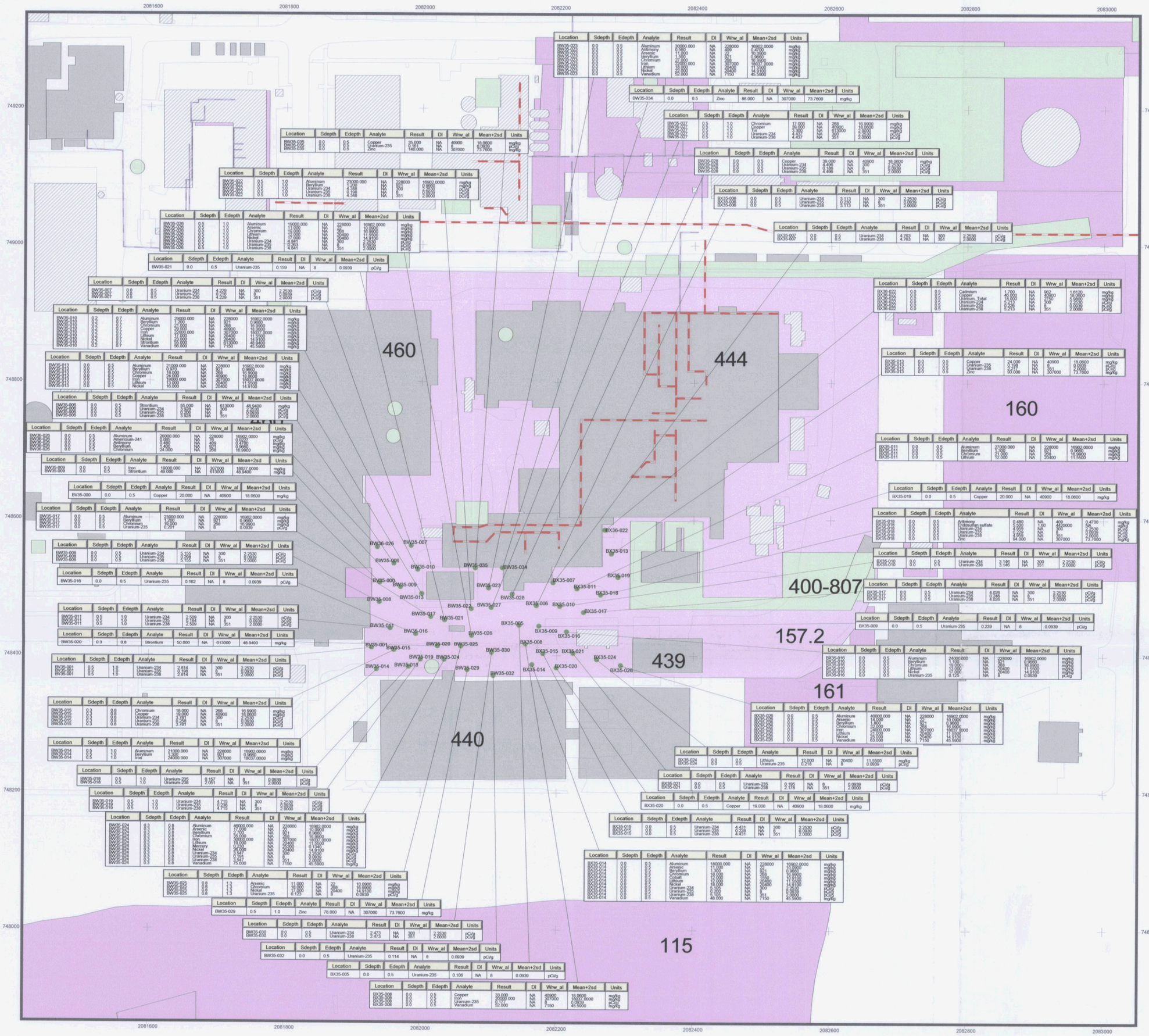
Figure 6
IHSS Group 400-6 Soil Results Greater Than Background Means Plus Two Standard Deviations or RLs -- Surface Soil Southwest Area



KEY

- Results above Background Mean Plus Two Standard Deviations or RL and below WRW AL
- Results above WRW AL
- IHSS Group 400-6 (IHSS 157.2)
- Other IHSSs
- PAC
- New Process Waste Lines
- Original Process Waste Lines
- Paved Road

Building

- Demolished
- Standing

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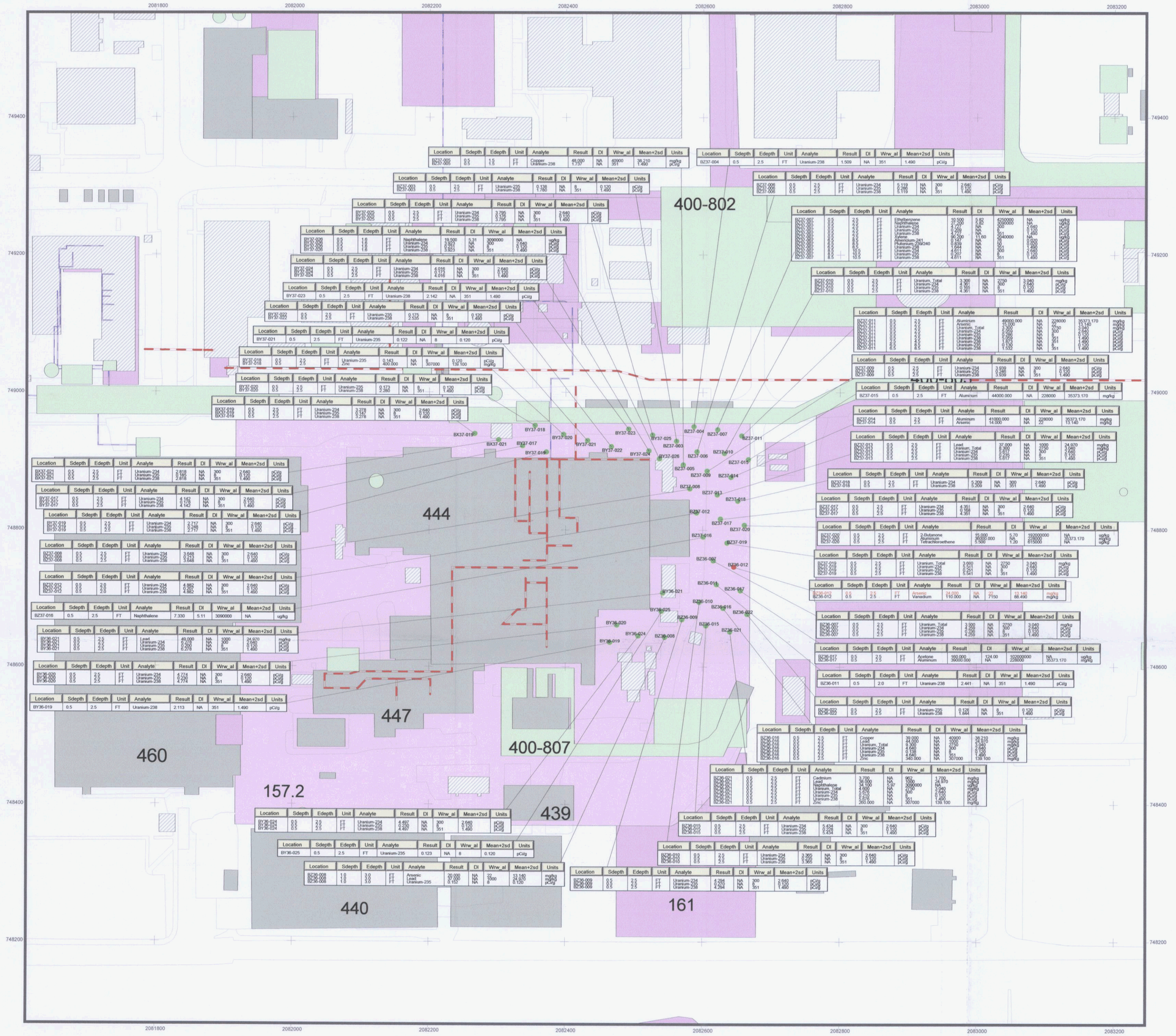
Figure 7
IHSS Group 400-6 Soil Results Greater Than Background Means Plus Two Standard Deviations or RLs -- Subsurface Soil Northeast Area



KEY

- Results above Background Mean Plus Two Standard Deviations or RL and below WRW AL
- Results above WRW AL
- IHSS Group 400-6 (IHSS 157.2)
- Other IHSSs
- PAC
- New Process Waste Lines
- Original Process Waste Lines
- Paved Road

Building

- Demolished
- Standing

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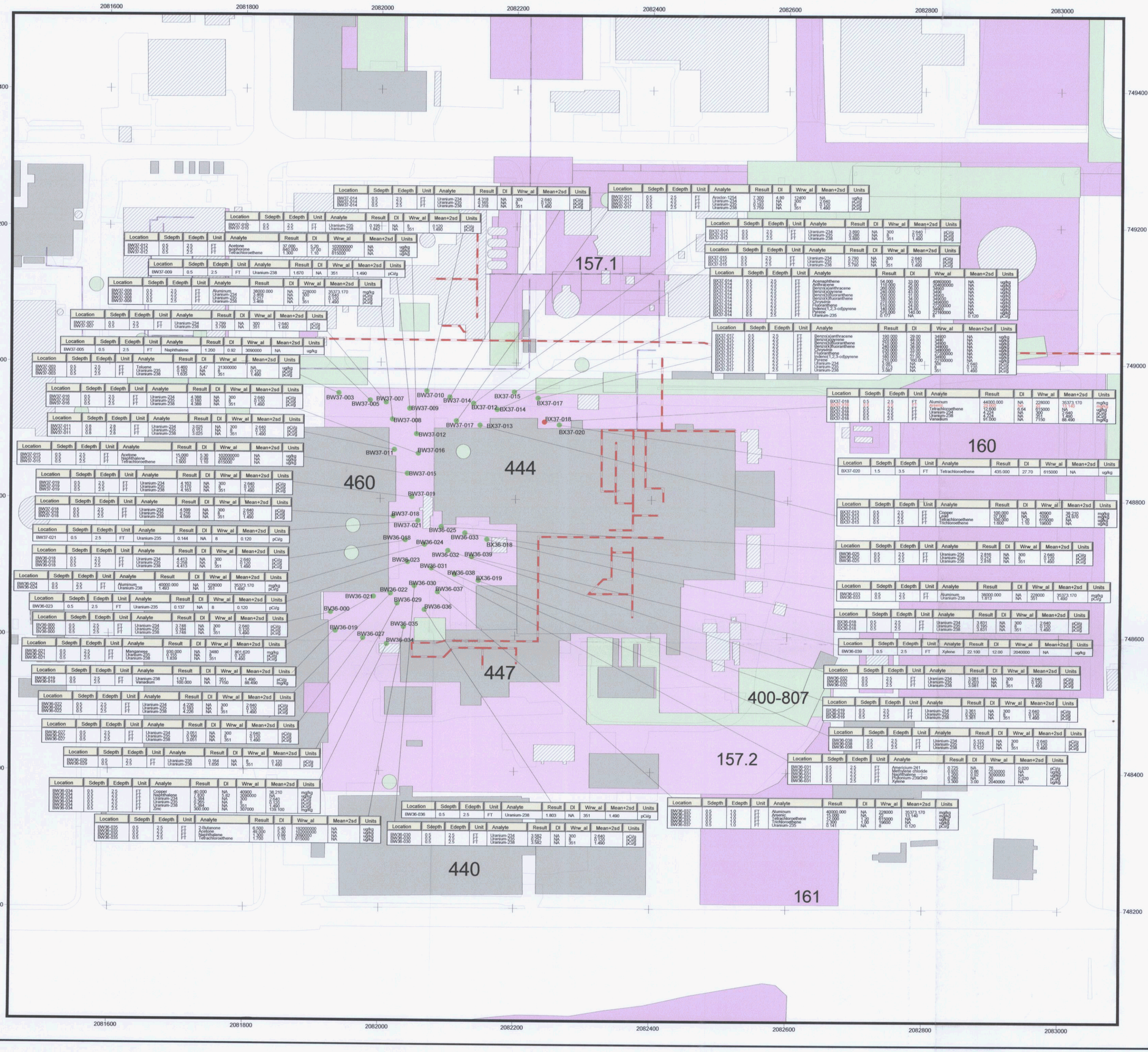
Figure 8
IHSS Group 400-6 Soil Results Greater Than Background Means Plus Two Standard Deviations or RLs -- Subsurface Soil Northwest Area



KEY

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- Results above WRW AL
- IHSS Group 400-6 (IHSS 157.2)
- Other IHSSs
- PAC
- New Process Waste Lines
- Original Process Waste Lines
- Paved Road

Building

- Demolished
- Standing

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Figure 9
IHSS Group 400-6 Soil Results
Greater Than Background Means Plus Two Standard Deviations
RLs -- Subsurface Soil Southeast Area

KEY

- Results above Background Mean Plus Two Standard Deviations or RL and below WRW AL
- Results above WRW AL

- IHSS Group 400-6 (IHSS 157.2)
- Other IHSSs
- PAC
- New Process Waste Lines
- Original Process Waste Lines
- Paved Road

Building

- Demolished
- Standing

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Figure 10
IHSS Group 400-6 Soil Results Greater Than Background Means Plus Two Standard Deviations or RLs -- Subsurface Soil Southwest Area

KEY

- Results above Background Mean Plus Two Standard Deviations or RL and below WRW AL
- Results above WRW AL

IHSS Group 400-6 (IHSS 157.2)

Other IHSSs

PAC

New Process Waste Lines

Original Process Waste Lines

Paved Road

Building

Demolished

Standing

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